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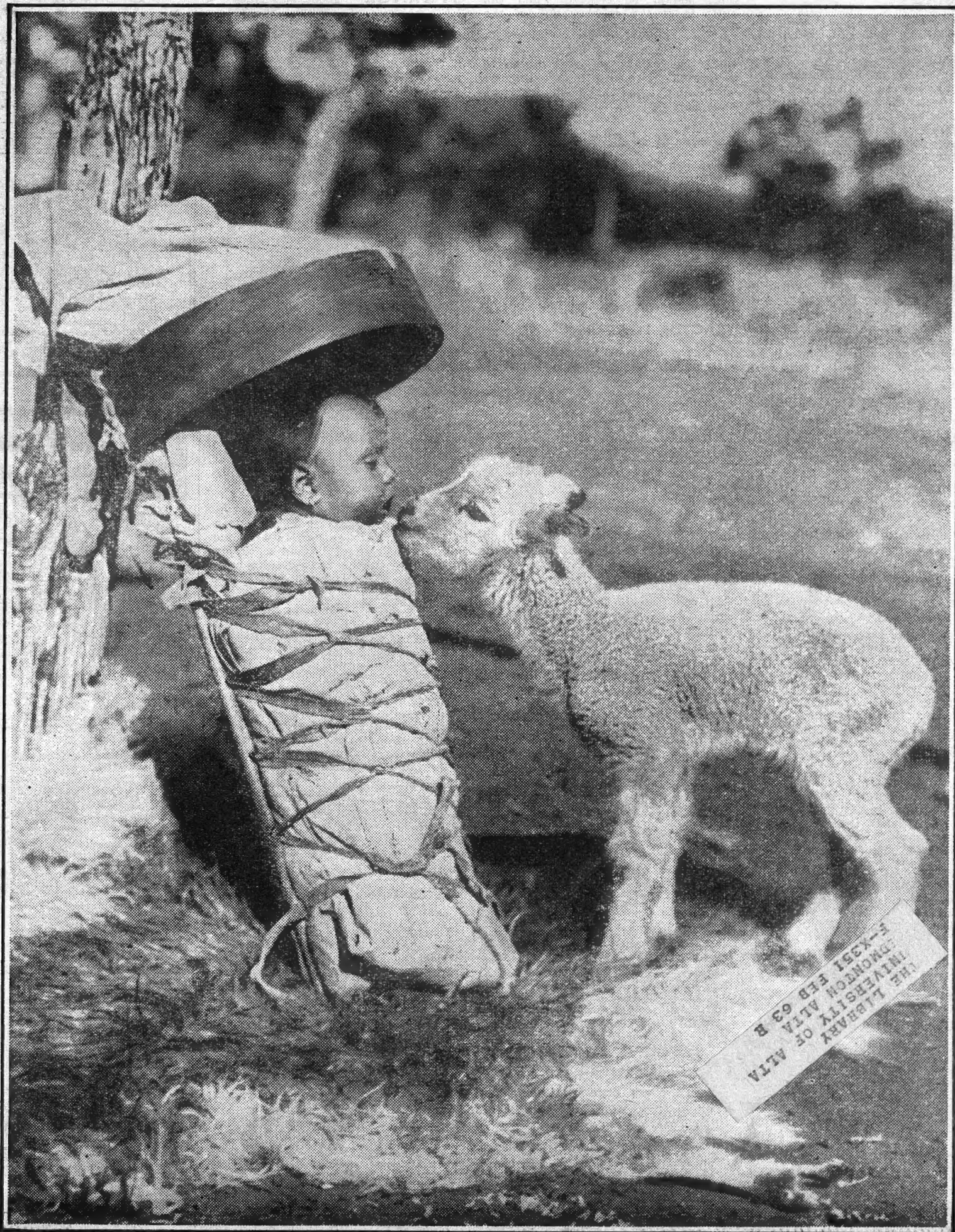
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Animal Science

Farm and Ranch Review

CALGARY, ALBERTA
MAY, 1948

VOLUME XLIV
NUMBER 5



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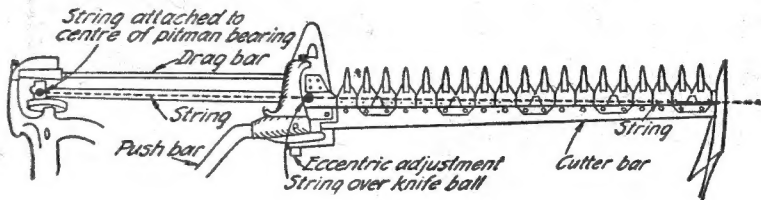
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WAYS TO REDUCE MOWER DRAFT AND PREVENT CLOGGING

A mower that has been used for several seasons may get sufficiently out of adjustment that the draft is increased anywhere from 10 to 50 per cent. A few simple adjustments will go a long way to reduce this unnecessary draft and at the same time prevent delays due to clogging and breakage. Two of the main causes are discussed below, with illustrations and suggested adjustments to remedy them.

Alignment of Cutter Bar

Probably the most common cause of heavy draft lies in the cutter bar getting out of alignment. When a mower is in operation, the pitman boxing, the ball head of the knife, and the outer end of the knife should all be in a straight line. But the outer end of the cutter bar lags a little, and to compensate for this lag the outer end (when at rest) must be slightly ahead of the inner end. A new mower is adjusted this way, but as it wears with



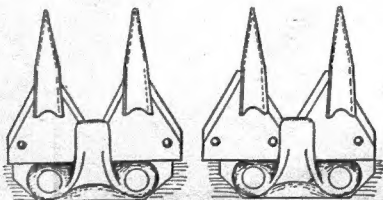
usage the amount of "lead" is gradually lessened. Unless it is readjusted, it reaches the point where, in operation, the outer end may lag an inch or more behind the inner end . . . increasing draft and decreasing its mowing efficiency.

The above illustration shows how to check the alignment. To be accurate, the machine must be placed on level ground (or on a floor) . . . the pole raised to working height . . . the tilting lever set so the bar is level . . . the outer end of the cutter bar pulled back to take up all slack . . . and the pitman wheel rotated until the pin is at its lowest point. Then stretch a string from the centre of the pitman bearing along the top of the pitman, across the centre of the knife-head ball, and attach it to the outer shoe. For correct "lead" the outer end of the knife should be one inch ahead of the inner end, on a 5-foot mower.

A faulty "lead" can usually be corrected by adjusting the lengths of the push bar and drag bar. Some mowers have an eccentric bushing on the rear hinge pin for this purpose. In extreme cases, it may be necessary to replace worn hinge pins or fit worn pin holes with bronze bushings. Sometimes, the push bar has been sprung and needs to be straightened.

Registration of the Knife

A second common cause is faulty registration of the knife. For clean cutting, sections of the knife should



travel from the centre of one guard plate to the centre of the next on each stroke of the pitman. All sections should be centred when the knife is at the extreme end of the stroke — see illustration.

If the sections do not centre, the whole cutter bar assembly needs to be moved by either lengthening or shortening both the push bar and drag bar.

Adjustment of Clips and Plates

A third cause lies in the wear of the knife clips and wearing plates, which permits the knife to tilt instead of holding it flat. This can be corrected by slackening the guard bolts and tapping the wear plates slightly forward . . . then tapping the clips down until they are snug but do not bind.

FOR SMOOTHER WORK WITH TRACTOR LOADERS

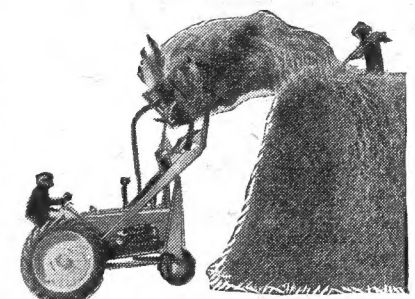
1. The success of hydraulic loading attachments for tractors depends up-

on smooth, easy operation. The operator should be careful to use the fluid recommended by the manufacturer.

2. Under no circumstances, should fluid be added to the tank when the hydraulic pistons are extended, because when they are returned to the closed position more oil is forced into the tank, causing it to overflow and possibly damaging it.

3. It is very important that the air vent on the hydraulic tank be checked every day. Plugged and dirty vents cause jerky or slow operation.

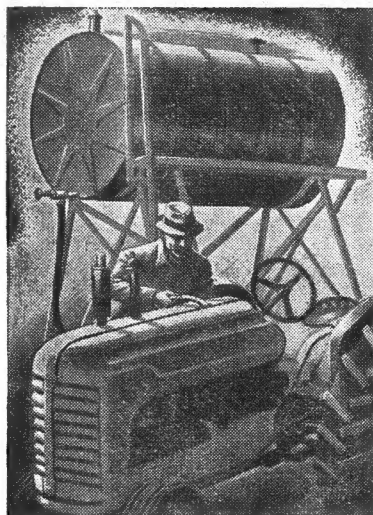
4. If hydraulic fluid foams or overflows at the tank vent, it may be due to any one of four causes:



- Not sufficient fluid in the tank.
- Water or other impurity in fluid.
- Fluid of too heavy a grade.
- Air leak in hydraulic lines on suction side of pump. In checking lines for air leaks, lather them with a shaving brush.
- In replacing dirty fluid with clean, be sure to drain the lines well.

A FARM STORAGE TANK DOESN'T 'COST'...

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A farm storage tank pays 5 ways. First and foremost, it permits you to buy and store enough fuel at one time to be sure of having a supply on hand when you need it. No costly delays when tractors stand idle waiting for fuel to be delivered.

Second, it helps to keep fuel clean and avoid plugging of fuel lines and carburetors with grit, dust or water. The tank can be mounted with enough slant to cause any impurities to settle away from the outlet.

Third, it saves time in re-fueling tractors and trucks, if the tank is mounted overhead. Gravity flow is quicker than pumping or pouring. And fourth, it prevents the spillage of the pump-and-pail method.

Last but not least, a farm storage tank pays in added safety, because it can be located well away from house, barn or sheds.

Tanks come in three sizes. The cost is reasonable. See your Imperial Oil Agent.

FILTER CARE CUTS TRACTOR WEAR

Tractor motor oil seldom "wears out". It becomes contaminated with dirt, carbon, etc. which causes wear. If the oil filter is cleaned and serviced regularly, it helps greatly to improve tractor performance. A dirty filter means dirty oil and unnecessary wear. It is important that you follow the instruction book and service the oil filter as often as recommended.

Another cause of rapid motor wear is the entrance of dirt into the engine through leaks in the connections between the air cleaner and the carburetor. Check for loose connections. Under normal working conditions, the air cleaner needs daily servicing . . . oftener under extremely dirty conditions . . . but be sure to keep the oil level at the proper mark. For best results, use clean oil of the recommended grade.

Farm and Ranch Review

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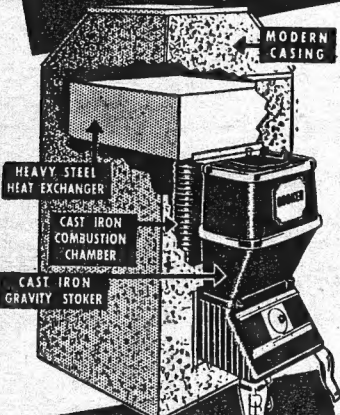
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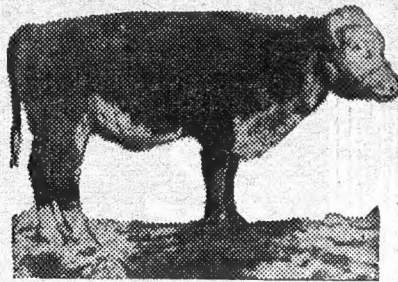
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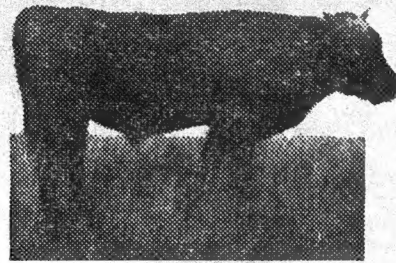
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"And Cattle After Their Kind"



Bull No. 1.



Bull No. 2.

By H. F. IRWIN

HERE is a bull with a background but no future, and another with neither. The ancestry of the first is impressive; his record is not. The only claim of the second to notoriety is the extent of his brotherhood.

The straight lineage of Bull No. 1 is apparent, but no amount of care and feeding will give this cull herd value. The fact that he was left entire reflects the high prices paid in recent years for pure-bred breeding stock, and suggests that the inexperienced purchaser often puts too much faith in a pedigree. It also condemns a pennywise breeder whose shortsightedness in keeping such an animal for breeding purposes is detrimental to the industry of cattlemen with vision.

But for the one purebred cull there are twenty-and-one scrub bulls, and every one is potent. Bull No. 2, bovis roadsides, is only one of the legion that disregards fences and roams neighborhood pastures from Peace River to Battle Creek.

They may be found at large in any season, as stockmen, using the term advisedly, will testify; a season, too, these men declare, that should be open, the same as for other pests.

Scrub bulls have cost Western Canadian breeders more than fluctuating markets ever have. And the end is not yet.

Possibly a far wider spread between prices paid for top grades and for common cattle, which are generally of scrub origin, ultimately might end harboring this type of sire.

J. E. Brownlee To Head U. G. G.



J. E. BROWNLEE, K.C.

J. E. Brownlee, K.C., former premier of Alberta, has been elected President and General Manager of United Grain Growers Ltd., succeeding R. S. Law who has resigned for reasons of health, it has been announced from the Company's offices at Winnipeg.

R. C. Brown, managing-director of the Country Guide and Public Press, succeeds Mr. Brownlee as First Vice-President, and J. Harvey Lane of Fill-



R. S. LAW

more, Sask., continues as Second Vice-President. George E. Edworthy is manager of the Company's Western Division at Calgary.

Mr. Brownlee has been associated with the U.G.G. as legal adviser since 1912. In 1942 he became a member of the Board of Directors, First Vice-President and General Counsel. In January, 1948, he assumed the duties of General Manager.

Advertisement

RHEUMATISM YIELDS TO SPECIALIZED SYSTEM OF TREATMENT

Excelsior Springs, Mo., April 30.—So successful has a specialized system proven for treating rheumatism and arthritis that an amazing new book will be sent free to any reader of this paper who will write for it.

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The Ball Clinic, Excelsior Springs, Mo., has perfected a specialized system of treatment for rheumatism and arthritis combined with the world fa-

mous mineral waters and baths. This new system of treatment is fully described in the book and tells how it may be possible for you to find freedom from rheumatism.

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How better cast iron gives jobs to Canadians



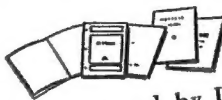
The ancient Egyptians spoke of iron as the precious metal. It was used for making swords, armor and ornaments. As early as 332 B.C. iron was being cast into various forms.



In modern times, various industries began extensive research on the effects of adding Nickel to cast iron, realizing what vast improvements had been imparted to steel by adding Nickel. In this research, International Nickel took a very active part.



Over a period of years, it was discovered that by adding Nickel sometimes with other alloying elements, cast irons could be produced which were definitely stronger, tougher, and more uniform in texture, more resistant to wear and rust.



The facts uncovered in this research work were carefully collected by International Nickel and broadcast freely to foundries, manufacturers of machinery and other potential users.



Thirty years ago the commercial use of Nickel in cast iron was unknown. Today many thousands of tons of Canadian Nickel are used for this purpose.



The production of this Canadian Nickel means jobs for hundreds of Canadians in the Nickel mines, smelters and refineries. The use of Nickel cast iron has led to great expansion in cast iron foundries, thus giving employment to still more men. Thus does research develop better products and create more employment.

Placing Nickel anodes in the electrolytic tanks at the Nickel refinery.



"The Romance of Nickel" a 60-page book fully illustrated, will be sent free on request to anyone interested.

Canadian Nickel



Farm and Ranch Review Editorials

A Customs Union Could Save Canada From Becoming Another Banana Republic

IN our March issue, the *Farm and Ranch Review* came out in favor of a Customs Union with the United States. Since then others have entered the ring. *Life* magazine joined us and immediately stirred up the opposition of the *Financial Post*, *Saturday Night* and the *Montreal Star*. We have reprinted the arguments of *Life* and the *Financial Post* on page 7.

What will impress our readers, as it impressed us, is the weakness with which the *Financial Post* presents its case. It concedes the validity of the main point in the *Life* article. That point is: A war-shattered Europe is an uncertain market for Canada to depend on. *Life* argues that it will not recover quickly enough to help Canada solve her dollar shortage. The *Financial Post* says it may not, but hopes it will and places its chips on a hope and a prayer.

The *Montreal Star's* arguments against a Customs Union are important, and well marshalled. They deserve an answer and we have that answer.

The points made by the *Montreal Star* are these:

(1) Customs Union would create great problems for eastern industry.

(2) Customs Union would lead to political union.

(3) Because of our huge production of foodstuffs, we would create pressures from the American farm bloc against us. Western farmers would be powerless pawns in farm bloc politics.

Who Owns the Factories?

There is no doubt that problems would arise for eastern industry. But we suggest that the definition is wrong. More correctly it would be — problems would arise for the owners of the billions of dollars worth of American branch-plants located in Ontario and Quebec. These would not be Canadian problems in a real sense. They would be American problems. A Customs Union would force the American owners of these American factories located in Canada into competing for a wider market. If the inefficient plants were closed down, the gain for Canadian consumers would be immense. The efficient plants would have access to the American market.

The *Financial Post* has pointed out that one factor which caused high prices in Canada was the small market that had to be serviced. It costs as much to make a machine tool to turn out a thousand parts as it does a million. Thus all the components of American products made in Canadian factories cost more and the product itself has to be sold for a higher price to Canadians.

A Customs Union would open the whole of the American market to our industrial production and enable it to reduce prices substantially.

The political union argument surely comes strangely from people who believe

in Free Trade. It has always been our belief that freedom of trade was essential to political independence. We still believe so. We are reinforced in this belief by the fact that under mutual protection, Canada has been reduced to a political satrapy of the United States.

Washington Whispers the Tune

Does the *Montreal Star* seriously argue that we have a foreign policy that is "independent" of the United States? Surely not. Our foreign policy changes with the available wind from the south. We need quote but a single example — the somersault we did on Palestine partition. A mere whisper from Washington was enough to reverse our stand completely, even before a public announcement from Washington that the United States was changing its mind.

Nor is our so-called internal political freedom much more than a myth. A complaint from Washington was enough to force us to change our gold policy. Our railways were forced to increase their passenger fares during the war under pressure from the United States railways. That pressure was great enough to force the Wartime Prices and Trade Board to permit the increase.

Our belief is that Customs Union will give us more, not less political freedom. We are frightened not at all by bogies of farm bloc politics. Indeed, many of the measures obtained by the American farm bloc would look well on our own statute books.

We do not deny that in some years our surplus of farm products would create problems — under the old system. But it was our impression that the Governments of this world, through international agreements, were dedicating themselves to solving some of these difficulties. We thought that the world had at last awakened to the insanity of people starving in the midst of plenty and was determined to end it once and for all.

Sorry, We Aren't Frightened

More, there is a growing school of thought that believes that United States will experience difficulty in maintaining its own food production. That is, in an economy of full employment its consumption is so large that it will be able to utilize some of Canada's surplus. It is already in difficulty over meat because of foot-and-mouth disease in Mexico. It could use surplus meat from Canada. It would pay a much better price for it than Canadians now pay. So let's have no more nonsense about Farm Bloc politics.

We are in favor of a Customs Union because it will increase the standard of living of all Canadians. That fact is conceded by all our opponents. But we have an additional reason. Our outrageous system of protection is turning this country into a banana republic to be exploited by big American capital.

The natural resources of Canada belong to the Canadian people. But they have been grabbed off by American capital and are being depleted at a rate that is staggering. Our forests are going by the millions of tons into American newspapers. Our oil resources in Alberta are being alienated by the big American companies. The profits from the development and use of our natural resources are going into the United States. Our grand children will come into their inheritance when it is a wilderness of stumps, worked-out mines and abandoned oil wells.

Canadian Faith in Canada

The disastrous thing that protection has done to Canadians is this: It has weakened and in some cases destroyed their urge to risk their capital in the development of their own country. Instead of fighting for their economic independence, too many of them have sold their services to foreign companies. They prefer jobs with salaries to a share in the risks and profits of enterprise. Protection has destroyed enterprise. A Customs Union, which will give us all access to an almost unlimited market for our goods and services, will restore the faith and confidence of Canadians in themselves and in their country.

★

The Only Legalized Gambling Is With Producers' Grain

A VALUED subscriber asks, on our letter page, how the Grain Exchange differs from the rest of the free enterprise economy. Here is our answer:

It is the only gambling institution permitted to run wide open in Canada. The instrument used for gambling is the product of the farms and the food of hungry people.

Walk into a bookmaker's office and offer to bet \$1 on a horse race and you can be thrown in jail. But you can walk into any brokerage office in the Grain Exchange and bet \$1 or \$2 or \$5 or \$100 that the price of grain will go up or go down the next day. The broker charges 10 cents commission for each \$1 bet. If the gambler guesses the market correctly, the broker will get another \$2.50 commission for each dollar bet.

Mr. William Bryce, M.P. for Selkirk, summed it all up in the House of Commons very well. In our whole economy, only the western grain growers are inflicted with a futures market. The sugar beet growers work by contract. Those who grow other things have various means of marketing their produce. The prices of everything else in our economy are set by ordinary trading. Moreover, in every other aspect of the economy there is stability of price.

(Editorials Continued on Next Page.)

Farm and Ranch Review Editorials

(Continued)

The carpenter knows that he will get \$1.25 an hour when he goes to work tomorrow, regardless of the available supply of labor and the extent of the demand. Wages are not set on an hour-to-hour basis, depending on the supply and demand. Neither are the prices of automobiles, tractors, gasoline, flour, bread, milk or anything else.

In the whole of Canada, only the western Grain Growers are forced to depend upon a futures market. Only they see the price of their crop fluctuate hourly in line with the number of gamblers in the market, or the number out of the market.

And on this point we have a question for the line elevator companies. They have millions invested in elevators in Western Canada. They have never been so prosperous. They can handle the marketing of the farmers' grain much more economically through the Wheat Board than they can through the Grain Exchange.

They have been in Western Canada a long time, and they are here to stay. They will continue to do business as long as they provide their customers with satisfactory service. But where do they stand on the question of the futures market? Are they not being led down the garden path by the brokers in Winnipeg, whose offices are in their hats and who have to have the futures market to survive. We can understand why the brokers are making so much noise. The tacit support of the elevator companies is beyond our comprehension.

★

Of All Possible Solutions This Was Worst, By Far

No sensible Canadian doubted that the railways would be granted an increase in freight rates. It was conceded that their costs had risen to a point where they had to have more money in order to operate the kind of service Canadians require. But there will be few people in the West or in the Maritimes who will argue that the flat 21 per cent granted was not the worst possible solution.

The whole of the \$70,000,000 a year will come out of the pockets of the people in these areas. Because of the hundreds of millions of dollars that the taxpayers of all Canada have provided for canals, water competition in Ontario and Quebec will keep rates down in those areas. The full increase will be imposed on top of the unfair, the exorbitant and discriminatory freight rates already paid by the people of Western Canada.

That the Canadian Government would even have considered allowing this burden to be imposed is a fair measure of the political impotency of the West today. For that, the people of the West have only themselves to blame. By splitting their strength and sending splinter groups to the House of Commons, they have all but destroyed their influence on national affairs. Though beside the point of this editorial, that is something worth remembering.

As if to provide a sop to Western Canadians, the Government agreed to order a complete inquiry into the freight rate structure. This is one of the most imperative items on the Canadian agenda as far as the West is concerned. It should be an investigation conducted with great vigour, intelligence and complete impartiality. As the instrument of this inquiry it chose the Board of Transport Commissioners, which displayed all too few of these qualities in its rate investigation.

Thus on top of everything else, we must now content ourselves with life under a discriminatory freight rate structure, worse compounded by the recent increases. Maybe, if, possibly, and perhaps we may get some relief two or three or five years hence.

★

Rural Electrification And Inside Plumbing

OUR story this month on rural electrification reports progress in Saskatchewan. Two months ago we ran a similar report from Manitoba. We have done nothing about Alberta because it was impossible to get the information from the government.

While Manitoba is making terrific strides — it will spend another \$8,000,000 this year on rural electrification — and Saskatchewan is laying the foundation for a sound system, Alberta lags badly. The Alberta Government has a commission engaged in making a survey in an effort to provide the factual basis for a policy decision. In short, it has to make up its mind how to proceed with rural electrification, if it decides to proceed.

The danger in Alberta is that before the Government makes up its mind the private power interests will have taken for development all the profitable areas. There is no magic or genius needed to electrify the farms around the larger towns. These towns supply the load needed to pay for the transmission lines and other equipment. The electricity users in the towns pay a large part of the cost of extending the service to the farms.

In order for any kind of overall rural electrification system to function, it must have all these profitable pockets to help pay for the large areas where it is impossible to construct transmission lines and feeder lines economically. What is happening in Alberta is this: the private companies are soaking up all the profitable areas and the Government will be left with the responsibility of supplying electricity to the people who need it most — in the sparsely settled outlying districts.

We are not presuming to tell the Alberta Government how to proceed with rural electrification. We are not taking sides on whether it should make Manitoba its model or not. We are not arguing private enterprise or public enterprise. But we do say that all the amenities of city life, including electricity and inside plumbing, must be brought to the farm homes of Western Canada.

Our farmers are better able to pay their fair share of the cost than ever before.

But because they live on farms, they cannot pay the full cost of providing these services. Part of that cost must be spread over the whole people — urban and rural dwellers alike.

The constructive field open for cultivation here is immense. Perhaps, after all, the best way to get action is by vigorous pressure from the grass roots. To us, these objectives are far more important than most of the questions that get debated at farm organization meetings. It is about time our farm organizations stopped concentrating so heavily on money matters and paid more attention to such constructive subjects as rural electrification and farm water systems.

★

Mr. Maynard Answered Provocation With Folly

LET it be conceded at once that there was great provocation in the Liberty Magazine case. Concede, too, that the magazine's treatment of the Whitton report on Alberta Welfare agencies was disgustingly low journalism. Yet the fact remains that there is literally nothing to be said in favor of the whole course of action taken by the attorney general, Hon. Lucien Maynard. He answered provocation with folly.

The law of the land states that action for libel must be taken in the courts of the province where the alleged libel is published. In this case that would have meant Ontario. Mr. Maynard's proper action, if he believed the Liberty article was libelous, was to start suit in Toronto. Instead he adopted what seemed like a slick trick at the time. Conspiracy to commit libel is not covered by the section mentioned above. So a conspiracy charge was laid and Mr. Cooke and Mr. Dingman were hauled off to Alberta for trial.

There was once a time when such slick tricks would have been effective — during the dark ages of Pitts administration when Governments used the libel laws to stifle criticism and intimidate reformers. When the mildest reformers could be hauled into court and be severely punished for publishing appeals for parliamentary reform, it was small wonder that even the mildest reforms took a lifetime to achieve. Thanks to the struggles of such men as Thomas Erskine and Thomas Paine, the rights of citizens to criticize governments have been firmly secured. Governments no longer use the libel laws in an effort to intimidate and browbeat their critics.

Today our libel laws are on the statute books to protect the ordinary citizen from the publication of slander. The citizens of this country, whether by writing or speaking, have become accustomed to almost complete freedom in criticizing the actions of their governments. None has a greater stake in safeguarding this freedom than the very governments being criticized. Without that freedom, we would have totalitarianism, not democracy. Without that freedom, none of the ministers now in office in Alberta today would be in office.

It is unfortunate indeed that if Mr. Maynard was searching for precedent he did not go to Walpole instead of to Pitt. "No government," Sir Robert Walpole once said, "ever punished so few libels, and no government ever had provocation to punish so many."

Is a Customs Union The Solution For Canada's Problems?

Two Months Ago, The Farm and Ranch Review Said, "It Was."
Since Then Life Magazine, and The Financial Post
Have Taken Sides.

Life Says, "Yes"

Life Magazine Would Integrate Economies
To Meet World's New Problems

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Canadians are the closest friends we have in the world, and they are in serious economic trouble. From the U. S. they need, and deserve, considerably less apathy about their plight. More than that, they need complete and permanent economic union with the U.S. The U.S. needs this, too, and so does the future of a healthy world.

Many Canadians, rightly proud of the distinctive nation they have built, will fear the political consequences of an economic merger. Many will believe it would be damaging to Britain. But Canada's political integrity is not the issue here. Canada's ties with Britain are of the heart, transcending the pocketbook. However, the logic of history is forcing Britain into closer ties with the European continent, and so Canada's economic future lies with ours.

Contracting World

We are confronted with a new situation which U.S. and Canadian citizens alike are reluctant to face up to. It is that the world order policed by Britain, which permitted Canada and the U.S. to develop their separate cultures pretty much apart from the world's tensions, has disappeared. It is a violently contracting world now, forcing all of us into new responses.

Wartime industrialization, with its higher wages and profits, brought Canada a 40 per cent rise in living standards. When the war ended the Canadians naturally wanted to keep right on, like a 20-year-old air force general.

Industrial Production

Canada thought she saw a way. She had the farm and factory production; she also had plenty of customers. All Europe clamored for Canada's new industrial production, and price seemed no barrier.

Naturally prices are less bothersome when you count your money as though it were cigar-store coupons. And that's what Canada's foreign exchange might just as well have been when Canadians tried to spend it for the U.S. fruits and nylons and gadgets that go to make up a 40 per cent living standard.

But the Canadians even had an answer to that. They had a wartime accumulation of the U.S., or "hard", variety of money. So Canada merrily expanded her plans and shipped more goods overseas. In this Canada believed she was serving the cause of humanity, as she was. She exerted a much greater effort, per capita, than did the U.S.

All this necessitated buying a steady flow of coal, oil, machines and raw materials, in addition to luxuries, from the U.S. Canada, always our best customer, became a super deluxe customer. Still her dollars held out.

Dawn, Cold and Gray

Then, one morning in the middle of last November, Canadians awoke to

find that they could see the bottom of their dollar barrel, and that their government had responded by trimming the outgo.

That rise in living standards is being cut back. The party is over; it hurts. In their less logical moments the Canadians gripe at the U.S. But we must all realize that radical changes have come to the world economy. For example, Britain, who once so very largely clothed the world with textiles, is now hard pressed to decently cover her own people, let alone export enough to pay for her food. The only safe assumption for Canada is that Britain and northwest Europe will be places of austerity, striving for greater self-sufficiency even in food, for some years to come. Even when they do recover, it may be to find populations, which means consumers, permanently depleted by extensive migration.

So Canadians cannot count upon European recovery to bring them quick or even steady economic improvement.

More Exports to U.S.

The true long-term answer for Canada is to export more food and manufactures to the U.S. That answer has been evident for many years. But Canada and the U.S. always had some quarrel or other, from the time Canada refused to join our revolution on through the fur seal controversy and the Alaskan border bitterness, down to the turn of this century. Then Washington and Ottawa decided it was time to patch things up. Teddy Roosevelt, followed by William Howard Taft, worked a reciprocal trade agreement with Canada. It was a good agreement and was actually approved by the U.S. Congress in 1911. But certain indiscreet Americans began to talk about admitting the Canadian provinces as states. This so disturbed the Canadians that they elected a new Parliament which refused to approve the treaty.

The door was held open until 1922 when, in a burst of ignorance about how a creditor nation should act, the U.S. Congress passed the regrettable Fordney-McCumber tariff.

Hyde Park Accord

The wartime Hyde Park agreement between Mackenzie King and Roosevelt sent a new flood of war goods into Canada, for use against the common enemy. Today the enemy is hunger, despair, anarchy, Communism. Canada's surplus foods and manufactures are unquestionably needed in this new sort of war. Since Canada herself has shown that she cannot fiscally operate in today's world, and since Britain is fiscally impotent, it is up to the U.S. to act. Doing so, we will not only employ Canada's considerable resources but also lighten the impact of our own food and industrial output.

The step we should take is a complete U.S.-Canadian customs union. This means that a manufacturer in Hartford would have no more trouble buying or selling in Toronto than in Chicago. Nor would a Canadian

(Continued on page 16)

The Financial Post Says, "No"

Would Canada Be Swallowed Up In The Process?

Is a customs union with United States desirable? Is it inevitable?

Superficially, a Canada-U.S. customs union looks attractive to many Canadians, especially in this time of dollar shortage. Canadian farmers have always warmed to the idea, especially in the West. They see bigger and better markets for their products; a chance to buy what they need more cheaply.

As well, there's many an Eastern Canadian manufacturer now in favor. Some of them covet the big U.S. market. Some of them see no prospect of continued production at wartime levels without a dropping of north-south trade barriers.

But most who argue this way don't face all the facts of customs union.

Where customs unions have been tried in Europe, it was usually the case that there were more than two partners, and the partners were of about equal strength and importance.

This isn't true of Canada and the U.S.

In economic terms, the United States is roughly 20 times that of Canada. If we wiped out barriers across the 49th parallel and put one tariff or customs fence around both of us, it would be America's fence — not ours. The greater would inevitably dominate the lesser. The Canadian farmer would have no more (if as much) say in North American wheat policy than the State of Utah.

Hence, before anyone jumps to the conclusion that a customs union is "desirable", he must first realize and be prepared for economic, and then political, domination. In short, annexation.

There is another important side to this "desirability" argument.

When you start to analyze it, the chief, if not the only gain for Canada, in customs union, would be greater "material" prosperity, so long as the U.S. was prosperous. As one eminent Canadian put it to me recently: "Our only advantage would be a share in their prosperity — when they had it."

On most other counts, Canadians usually prefer their own social, political and cultural associations. True, we sometimes envy Americans their warm climate, and the greater "opportunity" that is seemingly theirs. But most Canadians are dubious about American Government.

Is a customs union inevitable?

The answer depends on your estimate of European and British recovery.

If Canada can no longer look for markets and normal trading relations with Europe in the foreseeable future, then one of two things is sure: either we must accept a lower standard of living in Canada or link up with U.S. to level out our living standard with theirs.

Most people are far from sure that Europe can be written off that easily.

France, Britain, Belgium, Netherlands alone represent a population of 100 million. They include some of the best stock the human race has ever produced. Despite the terrific impact of world conflict they are with reasonable rapidity getting once again on their feet.

These countries may still be some way from having their currencies freely convertible (which is the important goal for Canada). But to "write them off" just now is risky.

Unless you do write them off, they stand as the important and, perhaps, decisive factor in whether or not a customs union between Canada and the States is inevitable.

In short, it's impossible to say now that Canada has really reached the "fork in the road" until we know what is going to happen in Europe.

Invisible Tariffs

If, eventually, we have to write off Europe permanently as a market for our goods, then we in Canada probably are "at the fork". In such circumstances we may have to choose between a lower living standard or American union.

But that time hasn't yet come. Nor will it come until Europe has proven, beyond doubt, that her goods and currencies aren't going to be freely exchangeable with those of the dollar nations.

What then are the immediate alternatives for Canada?

This seems clear: some way must be found to channel this current American interest in Canada into useful and productive ways. We can't afford to say "no truck nor trade with the Yankees" just because a majority of us don't think a customs union is presently desirable.

Two things could be done immediately if the Americans are serious about helping Canada and about taking "first steps" toward better economic relations. These are:

1. Wipe out the "invisible tariffs" along the 49th parallel.

2. Negotiate as quickly as possible a new and direct trade arrangement, aimed to remove tariff barriers on a number of items where Canadians could expand their market in the U.S.

Invisible tariffs are the antiquated, reprehensible and absurd procedures and practices wound around customs regulations and administration (The Financial Post, Oct. 5, 1946).

A recent example is the adding of 25% domestic excise tax onto the duty value of Canadian goods entering the U.S. Another example is the Nova Scotia apples which were turned back because each tissue wrapping had not been individually stamped "Made in Canada".

More Delay Seen

Canada fought the battle for customs reform around conference tables in London and Geneva some months ago. She got unanimous approval from the 17 nations represented there. She brought about a considerable if not complete change of heart in the U.S. attitude.

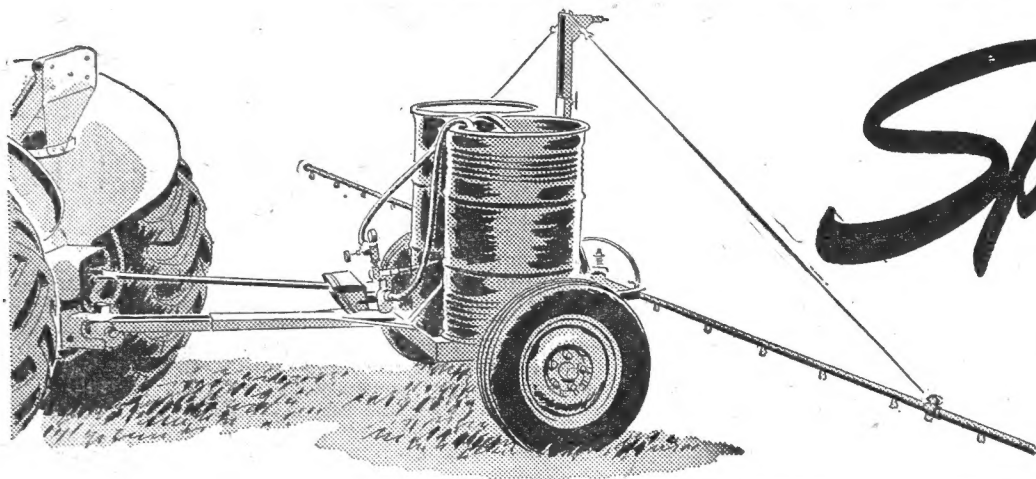
Unfortunately the Geneva code has not yet reached the floor of Congress. What now appears likely is that the United States may take no action prior to the forthcoming election. That means another year of delay and obstruction.

(Continued on page 16)

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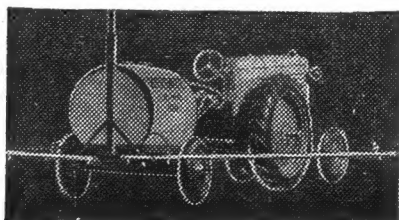
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Western Democracies Score Decisive Win In Italy

By BEN MALKIN

THE defeat of Russia and the victory for the west in the Italian elections was clear-cut and decisive. But whether it was in fact a victory for democracy only history will be able to tell. The word "democracy" has been used so loosely of late that it is losing its meaning. To make democracy work requires patience, skill, understanding and tolerance. To expect all of these of the Italian people, after years of totalitarian living is ridiculous.

In a broad sense, however, the Italian election result is an important dividend on the policies adopted by the Western Democracies in recent weeks. Since the Communist seizure of power in Czechoslovakia in February, the western world has taken out its first premiums on the best possible insurance policy against war. The west has taken concrete measure to prepare for war and has tried, as plainly as possible, to convince the Soviet Union that by further attempts to expand its power by force it will surely blunder into a war.

The United Nations, in the past few weeks, has been virtually abandoned as an agency capable of maintaining world peace. Instead, the west has now begun to erect a system of collective security along the lines suggested before the last war to stop German aggression.

The first major step toward such a system of collective security was taken in mid-March, with the signature of a treaty between the Benelux countries — Belgium, the Netherlands and Luxembourg — and Britain and France. The United States approved the combination of these powers for purposes of mutual defense against aggression, and has since speeded passage of its European recovery program through both houses of Congress, to help give economic muscle to these countries. Finally, a bill for universal military training — something hitherto repugnant to the United States in peacetime — is now being seriously considered in Washington.

West Is Not Bluffing

These are the major steps that have so far been taken to prove to the Soviet leaders that the west is not bluffing when it says it will defend itself against further aggression from Russia.

That is the broad picture at the moment, as it has come into focus in the past month. Aggressive Communism has been sharply warned by the west that further expansion will involve it in war with the west. The west has backed up this warning with definite steps toward war preparedness.

In its details, the struggle between east and west centred chiefly around the election in Italy, and the efforts of the Russians to nag and harass the British and Americans in Berlin into withdrawal from the former German capital.

Trouble In-Berlin

In Berlin, the Russians tried to prevent British and American occupation forces from pursuing their normal lives by delaying entrance of goods and personnel from the western zone of Germany through the Russian zone and into Berlin. They tried to prevent maintenance of rapid telegraph communications between the western zone of Berlin and the western zone of Germany. In brief, they did everything short of using armed force to make it impossible for the British

and Americans to remain in Berlin. The excuse they gave was that large numbers of spies and anti-Soviet elements had been entering the Russian zone of Germany by way of Berlin.

The real reason, however, was not far to seek. Since the beginning of German occupation, the Russians have tried to seal off the eastern zone of Germany with a view to forming a separate state out of that territory. Eventually, it may be assumed, they hope to establish a puppet German government in Berlin which will rule the eastern zone of Germany. In such an event, this zone will then become, for all practical purposes, a part of the Soviet Union, and Russian imperialism will then have made greater gains than ever it did under the tsars. But as long as the British and Americans remain in Berlin, attainment of this objective will be difficult, if not impossible. Hence the present effort to dislodge the western Allies from Berlin.

In the light of past events, this conclusion is inescapable. It explains clearly why the Russians have firmly opposed the terms of the Potsdam agreement of 1945 which called for economic unity within the four occupation zones of Germany; why they established, with the support of their bayonets, the Communist party of Germany as the leading German political group in eastern Germany; finally, why they are trying to bedevil the British and Americans into withdrawal from Berlin.

The answer of the west has been in line with its recent policy of fighting Russian aggression. They have told the Russians, simply, that they have no intention of leaving Berlin. There the matter rests.

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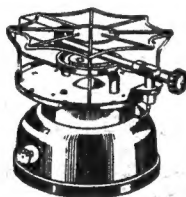
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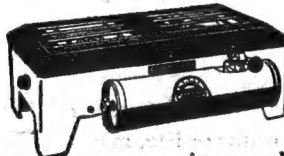
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Manitoba Farmers Co-operate To Save Their Top Soils

ONE of the first soil conservation efforts made on a practical farm and community basis in Western Canada is now under way near Alexander, Manitoba.

Five years ago farmers of the district, becoming alarmed at the growing menace of soil erosion, enlisted the support of the Manitoba Department of Agriculture and the Manitoba Agricultural College. A co-operative group was set up. Despite the usual difficulties of farm labor, unfavorable seasons, and so forth, much progress has been made; part of this has been on individual farms and part of it has been on a community basis.

On individual farms a number of gullies have been filled in, smoothed or graded and seeded down to grass, becoming grassed run-ways. On some fields a number of control lines have been laid at right angles to the slopes during the summerfallow year and seeded down to grass-legume mixtures. These control lines are for the purpose of providing buffer strips on the main contours. They serve as guide lines to the farmers in sowing their fields crosswise of the slopes. The effects to date of these measures are most striking.

On the community basis, efforts have been directed towards controlling large ravines cutting back from the Assiniboine. This has been accomplished by constructing diversion dykes and diversion ditches to take the runoff water to the river on flatter grades. The dykes and ditches have been seeded to grass. The installations have drawn a large number of

visitors and in their success will guide similar development elsewhere in Manitoba.

Progress at Alexander is of special interest to farmers in such communities as the Handhills district south of Delia, Alberta, the Carrot River valley in northern Saskatchewan, and the Oxbow district of southern Saskatchewan; it is of general interest to many districts of Western Canada. These districts have soils and topography closely resembling those of the Alexander district. The topography is rolling. Small coulees converge into larger ones leading to the Assiniboine River. The farms are undulating and the soil erodes quickly under water action. Settlement has been established and farms have been under cultivation for a great number of years, so that much of their original soil fibre is gone.

At Alexander deep coulees have begun to cut back from the Assiniboine River on to farms bordering the stream. Smaller coulees have begun in turn to cut deeper on the more distant farms. Summerfallow fields wash heavily in the spring and during heavy summer rains.

The heavy erosion caused by unusual storms in the Handhills area of Alberta last year has brought to the attention of the farmers of that district the necessity for control measures in the near future. Erosion in the black soil belts of Saskatchewan is nearing the point of heavy farm depreciation, especially in the Carrot River valley and on the south slopes of the Wood Mountain district.

Double Diversion To Restore a Lake

A SMALL flume, built many years ago, is being replaced this year by a deep canal by the Municipal District at High River, Alta. The new canal is an important development in one of Alberta's best farming districts.

The job being undertaken a few miles west of the town will divert water from the Highwood River into Squaw coulee. It is a tributary of Mosquito Creek which flows southeast by the town of Nanton to join the Little Bow River east of Parkland.

The main work is a deep canal which will replace a small flume built many years ago. The benefits of the flume were limited by its size to stock watering only, in a comparatively small district. The benefits of the canal will be more extensive both in uses and in area.

The overall project includes a second diversion of the water from Mosquito Creek itself east of Parkland to Clear Lake, east of Stavely. This lake recedes in dry years and became little more than a slough in the 1930's.

The double diversion, from the Highwood to Mosquito Creek and from that creek to the lake, will restore it to its original level. The Municipalities through which Squaw Coulee,

Mosquito Creek, and the Little Bow River flow constitute one of the banner farming and ranching districts of Southern Alberta. Water supply in these streams was an uncertain and intermittent one during the dry years. The carrying of water from the Highwood River, which is a constantly flowing stream, will provide a constant flow through the other three channels.

Dirty Water Means The End of Reservoir

THERE are now over 35,000 reservoirs on the farms and ranches of the Prairie Provinces constructed in about the last ten years. These vary from small dugouts to dams several acres in area and several million gallons in capacity.

This is the time of year when farmers and ranchers should watch the quality of the water reaching their reservoirs during the runoff. If this water is dirty and dark in color from the soil it carries, it is coming from the wrong type of drainage area, and the life of the reservoir will not be great. If, on the other hand, this water is reasonably clear and carries little soil the drainage area is good, and the life of the reservoir will be long.

(Continued on page 11)



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MUTUAL LIFE
OF CANADA

Head Office
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REBUILDING THE WEST

(Continued from page 10)

The life of the average farm reservoir in Western Canada is proving to be about ten years. It can be shortened considerably if the runoff water carries a heavy soil content. It may be lengthened indefinitely by control of runoff. There is no last half to the life of a farm pond; once a farm pond becomes half filled with silt it is no longer dependable. It is dry in periods of long drought when it is needed most.

Heaviest damage to farm reservoirs comes from locating them in the direct line of any possible soil drifting. The next heaviest comes from water flowing directly to them from summerfallowed fields.

The least damage occurs when reservoirs are protected by surrounding pasture land, stubble land, or tree belts, and where the water reaching them has a chance to drop some of its silt on the way. The farm reservoir is very definitely a valuable asset. The water reaching it is a farm crop. It should be managed and the fields from which it comes should be managed, just as those affecting any other crop on the farm are managed.

Reclaiming Land Abandoned Through Years of Drouth

THE first steps have been taken at Cessford, Alta., in an ambitious programme to reclaim the once prosperous farming country south and east of Hanna.

Some fifty Cessford farmers have organized the Berry Creek Water Users' District and are making plans to use the water of the creek for irrigation. A provisional Board of Trustees has been elected, consisting of J. R. McBeath, C. A. Seefeldt, and H. H. Forster.

The board has applied to the Province for a water right and to the Dominion for assistance in constructing a reservoir and main canal.

It is planned to expand the present group into an Irrigation District as quickly as the land is brought under ditch. It will extend its activities to about thirty townships, located in the bend of the Red Deer around Cessford.

This is the first time that irrigation

has been attempted on a fairly large scale north of the Red Deer River, and the first step towards reclamation of the once-prosperous farming district south and east of Hanna. First homesteaded about 1910, the district was completely settled by very excellent farmers from Eastern Canada and the United States. It had a short period of prosperity about the time of the First World War.

Drought then took charge, crops failed year after year, farmers and business men alike became bankrupt, whole areas were abandoned, towns and villages disappeared, Municipalities were disorganized. Over 90% of the lands have reverted to the Crown. The re-establishment of agricultural communities will be one of the greatest reclamation projects on the continent.

No Rainmaking In The West

SASKATOON: Spectacular successes elsewhere with experiments in "rainmaking" might prove to be a flop when tried in the skies over Western Canada, a physicist at the University of Saskatchewan warned prairie farmers.

The physicist, Dr. Balfour Currie, said clouds over Saskatchewan, in particular, were generally "too thin" to prove useful in the new method by which clouds are "sown" with dry ice from an airplane to start rain falling.

Main point, the physicist explained, was that there had to be clouds and they had to contain plenty of moisture.

Saskatchewan's moist air currents come from the Gulf of Mexico. Most of the westerlies lost their moisture in the foothills of the Rockies and the easterlies were not prevalent in the province.

Rain-producing clouds would have to be 10,000 to 12,000 feet thick and once Saskatchewan clouds became that big they usually dropped their moisture without assistance, he said.

Another disadvantage to general use of the new scheme was that planes had to be able to fly at least 15,000 feet up, something most low-priced planes would not do.

In other words, the physicist said, the prairie farmer's greatest spectre — drouth — would be around for a long time yet.

East to West OGDEN'S Rolls Best

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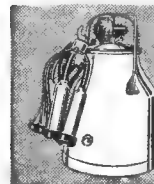
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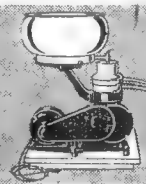
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Saskatchewan Lays Foundation For Electrification Program

Emphasis is Being Placed on Development of New Sources of Power, on Perfecting the Distributional System, and on Research To Solve Province's Tough Technical Problems.

By HON. J. L. PHELPS,

Saskatchewan Minister of Natural Resources and Industrial Development

REGINA: If an experiment now undertaken at Unity is crowned with success, the dream of thousands of Saskatchewan farmers may come true. That dream is a completely electrified farm. The experiment at Unity is to determine whether electricity can be generated economically from natural gas. If it can, Saskatchewan may be able to overcome its serious shortage of hydro electric power, one of today's most serious obstacles in the way of rural electrification.

Nobody has to argue the case for

ergy is the lignite coal, nearly all of which is concentrated in the extreme south of the province. The northern half of the settled area is largely dependent upon imported coal or diesel oil, since natural water resources do not lend themselves to easy development, and natural gas reserves are only in process of discovery.

Because of these special difficulties, both of supply and distribution, the Government is keenly aware that a thorough going program of farm electrification can only be accomplished

A Sign of Progress



A pole in front of a farm house in Saskatchewan means the end of drudgery for the whole farm family. This is a recently electrified Saskatchewan farm.

rural electrification any more. Electricity to run washing machines, stoves, radios, water systems and other appliances adds immeasurably to the enjoyment of living. In farm operations, electric power can be applied directly to the improvement of productivity and the reduction of heavy manual labor.

In Saskatchewan, however, farm electrification has encountered special conditions which have made the problems more difficult to solve than elsewhere. These are only some of the tough local problems — the sparseness of population; the prevalence of large scale farming units; dominance of grain growing which involves less use of electrical equipment than intensified mixed farming. That adds up to a market involving unusually high distributional costs, compared with other areas where rural electrification has made great strides.

Moreover, unlike more fortunate provinces, Saskatchewan is not liberally endowed with abundant sources of energy which are conveniently located or easily developed to provide power in bulk at low cost over the most economic transmission range. Today the chief native source of en-

through long-range planning, — on the basis of a soundly-established, province-wide integrated power system. In the past four years tremendous strides have been taken to build up this all-important base. The Saskatchewan Power Commission, which four years ago was only a minor factor in the power picture, has now absorbed three major, private companies which serviced extensive areas of the province. Only two municipal utilities and one private concern of major importance now remain outside the provincial system. Substantial progress has been achieved in inter-connecting the former independent sections.

New transmission lines have been built, extending central station service to many more towns and villages. Generating capacity in key central points has been greatly increased, both in steam and diesel installations. And an important step forward was taken in the past year with the harnessing of the natural gas energy at Unity for the production of electric power. The manner in which this integrated system has been built up is reflected in comparative statistics of the Saskatchewan Power Commission as shown in the following table:

Saskatchewan Power Commission

	1944	1947
Transmission line mileage	1,626	3,540
Towns and villages serviced	146	343
Number of services	12,989	45,087
Kilowatt hours generated	79,144,414	145,049,416
Kilowatt hours purchased	1,808,586	13,371,443

(Continued on Top of Following Page)

The long-range program of power development to make abundant low-cost energy available to all our people, rural and urban alike, envisages greater utilization of the lignite coal of the south and the harnessing of potential water power in both the South Saskatchewan and the Saskatchewan Rivers. The actual number of farm services connected to the Commission's high lines is still very limited, numbering only 800. Of these 642 were connected between 1945 and 1947.

The Objective, 75,000 Users

Meanwhile studies are going forward to determine the most feasible means of making large-scale farm electrification a reality. These studies indicate that if all areas of the province with a density of 0.8 farms per square mile are omitted about 36 per cent of the farm area of the province would be omitted. But the remaining area would contain 83 per cent of the occupied farms. This would approximate 100,000 occupied farms — compared with the total of 58,000 farms in Manitoba. Not all of these farms could be connected, but we may assume an absolute maximum saturation of 70 per cent, together with an estimated 5,000 connections to rural lines for non-farm service; the result thus arrived at is the huge working objective of 75,000 rural users.

The magnitude of Saskatchewan's task may be indicated further. To service Saskatchewan a number of farms would require an estimated 67,500 miles of rural line — almost 20 times the total transmission mileage owned by the Power Commission today. At present prices, moreover, the average cost of installing service with standard equipment in each of these farm homes is estimated in round figures at \$1,000 per service. When additional installations for generating capacity and transmission lines are considered, it can be easily seen that the capital requirements of farm electrification program would reach upward to the order of \$100,000,000.

New Farm Living Trend

This large scale program may be modified to a significant extent if the trend in modern farming methods in Saskatchewan should lead to further interesting developments. The growth in farm units, made possible by the machine age, has already caused a substantial movement of people from the farm to the village, towns and cities. It may lead still further in the direction of co-operative farming, or at least in the further centralization of the farm homes and buildings of a group of families tilling extensive acreage from one central point. Very real advantages, it is argued, accrue from this type of rural settlement. Rural isolation is greatly reduced and social life is vastly improved; dairying, poultry-raising and other forms of mixed farming become more practical; and an all-weather road to the trunk highway is fully justified. Under such conditions the problem of farm electrification is made significantly easier since many miles of transmission and farm lines can be cut out; the use of electricity in the home and in farm operations is increased; and the all-weather road is a factor of first importance in the serving and maintenance of the power lines, especially during periods of heavy snow or stormy weather.

For those areas where population is so sparse as to make central electric service an impossibility, an alternative means must be found. It may well be that a new type of modern wind-electric plant might be the most economic and satisfactory approach. These might be purchased in large

quantities and distributed at a reasonable price by the Power Commission or through the co-operatives. Research in this type of equipment as well as in gas-driven models is needed.

It is thus abundantly clear that only through the marshalling of advanced technical and engineering skill, of far-sighted and practical financing and of administrative ability of the highest order will the huge task of farm electrification in the province be accomplished. It is probable that in the major portion of the province, the job of local distribution can best be carried out by district farmers' co-operative, adopting a principle similar to that found in our rural telephone companies. In this respect Saskatchewan has a decided advantage. Our farmers have had long experience in making local co-operation work. And this may well be the key to solving the difficult problem of distribution cost which looms largest in our farm electrification program.

• • •

For the best all-round pasture, the Alberta department of Agriculture recommends mixtures rather than single grasses or legumes.



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For better control of flies in barns, stables, pig pens, etc. Extensive tests in barns and pig pens, last season, showed that one application of 50% DDT Concentrate mixed with whitewash gave effective control of flies for a period of at least nine weeks.

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which gave these outstanding results:
10 lbs. Lime
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10 gals. of water

Mix lime and DDT into paste, then stir thoroughly while adding the water. Apply with regular whitewash sprayer, wetting all walls and partitions thoroughly, especially around windows and doors. Do not let mixture stand too long before using; and keep it agitated.

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WESTERN CANADIAN GREYHOUND

The Background Facts In The Railway Freight Rates Issue

A Special Correspondent, Writing from Ottawa, Has Prepared an Interesting Summary for The Farm and Ranch Review.

By NORMAN FLANDERS

OTTAWA: Why, after all these years in obscurity, has the railway freight rate structure suddenly exploded into the liveliest political issue in the country? For a decade, the railway freight tariff system was like the weather — everybody complained about it but nobody did anything about it. It grew more and more complicated. Then, when the railways applied for an over all increase of 30 per cent in rates, seven provinces, who had become restive under the system, rose up in protest.

Now a complete investigation is to be made. Here are some of the things that have to be investigated:

Railway law. Railways are bound to do all kinds of things by law, things that reduce their earnings in some section, increase them in another. Here are some examples. They must provide a minimum service, regardless of the weather. When a big blizzard blows up and drives all the trucks off the highways, their competitors often shunt their business onto the railways — when it is exceedingly unprofitable to handle it.

Queer Mileage

The law fixes the rates that can be charged in the Maritimes. We establish by law an artificially short mileage between Fort William and Winnipeg, and an artificially long

mileage between Alberta and Vancouver. The rates that can be charged for shipping grain are set by law.

The rate ceiling is set by the Board of Transport Commissioners. The minimum rates are established by competition with other means of transportation. Where there is no competition, the ceiling rates apply.

Waterborne competition sets the rates in Ontario and Quebec and between Eastern Canada and the Pacific Coast. Lake vessels, using canals built and maintained by the Canadian taxpayers, at a cost running into the hundreds of millions of dollars, keep Ontario and Quebec rates down. That applies in the winter as well, during the five months when the rivers and canals are all frozen over.

In Eastern Canada the principle of non-discrimination applies. That means that cities which in fact have no outlet on water pay the same rates as those which do.

The rate from Toronto to Vancouver is established by what it would cost to ship goods by water through the Panama canal — if there was any traffic of that kind. As a result, the rate to Vancouver from Toronto is much less on most articles of commerce than the rate from Toronto to Calgary or Edmonton.

Because there is no water competition in the west, it costs much more to ship goods per hundred miles than it does in the east. The increase granted in freight rates will increase this margin because water competition will still govern the east.

In the West there is what is called the Mountain differential. That means that all freight through the mountains, and all freight going into or coming out of the mountains, is 25 per cent higher than the standard maximum. A shipment of timber may move 1,500 miles, 1,200 of which is on flat prairie and 300 in the mountains. That shipment would be charged at the full mountain rate for the entire distance.

Where competition for business is vigorous, as it is in the east between railways, lake vessels and trucks, rates are driven down to a point where they become money losers.

In the last 20 years, industrial expansion and invention has produced hundreds of new articles of trade. These have been inserted, helter-skelter, into railway rate books. There are commodity rates, class rates, agreed rates, and countless graduations of each. This means that the whole freight structure has become endlessly cumbersome and complicated. Any large shipper must maintain a battery of expert rate clerks to check freight bills. Another part of their job is continually to search through tariffs for loopholes that will enable them to pay lower freight rates.

Thus the railway freight issue resolves itself into a series of antagonistic demands.

Cream and Skim Milk

The railways need more money. They are already engaged in a desperate struggle for business with the truckers and steamships in Ontario and Quebec. Both of these are in business as a result of vast public expenditures on canals and highways. They skim the cream from the business, while the railways must operate hundreds of miles of unproductive

(Continued on page 15)

For Spring . . .
A "New Look"
from the
BIG BOOK



(SEE PAGE SIX)

EATON'S
Spring and Summer
Catalogue

A Helpful Shopper
from Cover to Cover

T. EATON CO. LIMITED
WINNIPEG CANADA

EATON'S

Record Price For Prize Steer At Regina Winter Fair

By JACK DENHOFF

REGINA: Although average price paid in most cattle breeds was down from last year at the annual winter fair, in Regina, an all-time high for Saskatchewan winter livestock shows was set in the sale of the grand champion steer at \$1.80 per pound live weight.

Fair officials thought the price was a record for western Canada, with the honors — and the \$1,476 for the 820-pound steer — going to Sam Small of Craven, Sask. The reserve champion sold for 40 cents per pound.

Top price for purebred bulls went to Will Elliott for his Shorthorn reserve champion, which brought \$1,200 from J. T. Clark of Inchkeith.

Shorthorns sold at an average of \$356.11 compared with an average of \$398.14 for last year. Average prices for all breeds was down from 1947 sale.

A total of 103 Shorthorns, 17 over last year, changed hands for a total of \$36,680. Of these 10 were purchased for P.F.R.A. and 24 for the Dominion government production services by Jack Byers.

Grand and junior champion, in the Shorthorn class, shown by Ted Stillborn, went to George L. Tarr of Craven for \$875 and the reserve senior, shown by William Fulton, Lumsden, sold to L. Wilson of Tugaskie for \$550.

Americans Prominent

American buyers were prominent when Aberdeen-Angus bulls went through the ring to bring an average price of \$342.32 — down from the \$385.71 average set last year. A total of \$9,585 changed hands in the breed and top price went to C. R. Wade of Asquith for the reserve senior, which brought \$625 from N. G. Powell of Truax. Wade also got second high for another yearling bull, bought by Harold Morrell, of Edgeley, for \$600. Ten of the 28 Aberdeen-Angus breed sold went to the United States, R.

The Background Facts

(Continued from page 14)

mileage through the wilderness of the north. There is little chance under present conditions of the railways increasing their earnings in the Central provinces.

But for the railways to get their additional revenue from the prairies and the maritimes creates impossible strains and imposes unfair burdens on the peoples of those areas.

The maintenance of our railways system in sound condition is imperative to the political stability of the country. Strategically, our railways are our first line of defence — something that cannot be ignored. Economically, they are our greatest asset. Without them western crops would rot in the fields.

Thus it becomes increasingly apparent that some sort of "national" solution will have to be found for the railway problem. That means that we must devise some method by which all the people of Canada will pay their fair share toward maintaining our railways in operation.

People who recognize this fact are exceedingly dubious about the ability of the present Board of Transport Commissioners to find such a solution. To put it bluntly, they don't feel that the board is heavy enough for the job. They are urging that nothing short of a Royal Commission made up of the best brains that can be found all across the country, will be able to find a solution.

Smith of Minot, N. Dakota, taking eight.

Horse entries were away below last year, with only 800 in the sale and bidding was slow. A total of 360 were disposed of the first day. Last year 1,200 horses were entered. A team of heavy sorrels from the stable of John Neiderhoff of Rouleau brought \$500 from B. H. Moore, also of Rouleau.

Other prominent horsemen at the sale were Phil Bodonoff, Regina; J. L. Toews, Herbert, Sask.; Isaac Kare, Winnipeg; Harry Schumann, Winnipeg and Charlie Grand, Moose Jaw.

Phil Bodonoff, Regina, paid the highest price for an individual animal at the horse sale, with \$500 for a palomino stallion offered by the Barton stables at Nokomis.

Average price for the 800 horses was about \$60.

Six bred sows from the herd of St. Peter's college, Muenster, Sask., hung up a high record price of \$154 each at a sale sponsored by the Saskatchewan Swine Breeders Association during the winter fair.

High price for show grand champion was \$210, an all-time high for the Regina sale and \$35 higher than last year's top.

Another entry from the college brought \$200 from Roland Frier, Davidson. Average price for 43 sows was \$93, or \$2 below 1947.

Charles Harlton and Son, Belle Plains, received \$105 for the reserve grand champion. A number who quit hogs in 1947 were back at Regina to buy bred sows and start new herds. Large, well-matured sows were in good demand.

All sows entered by the college were bred to a Prince Edward Island boar imported last fall to improve the breed. P.E.I. hogs were consistently a grade higher than Saskatchewan hogs, usually about 40 per cent more of the island's marketings getting A grade.

As elsewhere, entries in heavy horse classes were slimmer than last year, with only the classes in which city dray companies competed having more than three entries. In three cases the same man owned the only two horses showing in their class.

Quality, however was high, making choices difficult for George Cooper, of Pasque, Sask., the judge.

Winners included Donald Smith, Govan; Andrew Linton, Tuxford; Roy McGregor, Craik; D. J. McQuoid, Esthlin; B. H. Moore, Rouleau; G. L. Bower, Regina.

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(Minimum order, 50 sheets on above.)
24 gauge (.022) rolls, 14" wide, (suitable for forming) \$9.30
Per 100 square feet 31c

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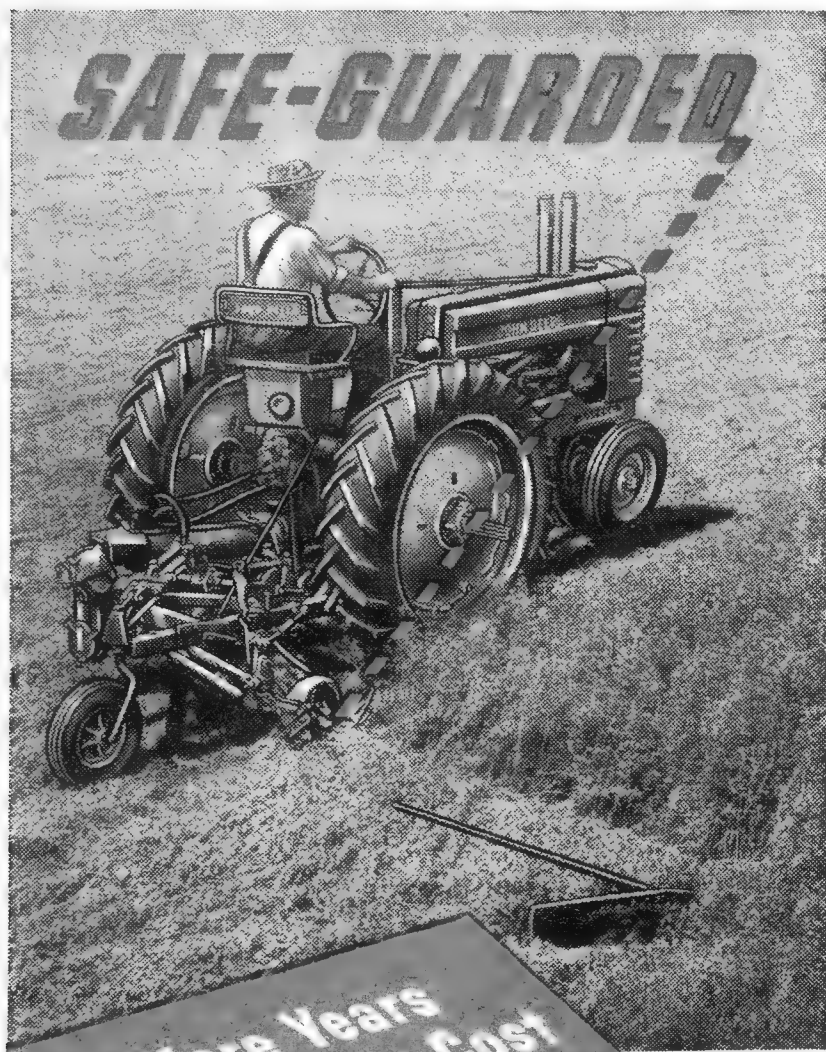
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Let's consider these safeguards and see what they mean to you in extra mower value. First of all, the No. 5 is carried on a caster wheel and the tractor drawbar providing the necessary flexibility to eliminate strain and twist on the frame when working over rough, gullied, or rocky fields. Of equal importance is the safety spring release which permits the entire mower to swing back out of danger should the cutter bar strike a hidden field obstruction. Then, too, there's a slip clutch on the power shaft that guards the cutting units, main drive, and power line if the cut-

ter bar clogs. Add to these fine features the eccentric yoke adjustment for maintaining proper lead in the cutter bar . . . and the simple means of recentering the knife, should it become out of register after years of hard service . . . and you'll agree, the No. 5 is truly the practical safeguarded tractor mower you want on your farm.

See your John Deere dealer for further information on the No. 5—the mower that's been copied by many but equalled by none. Free folder will be mailed upon request.

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CUSTOMS UNION

(Continued from page 7)

Life Says "Yes"

farm-machinery maker think more of selling an implement in Iowa than in Manitoba.

Partners, Not Rivals

The important thing is to start thinking and acting as partners and not as rivals. The rate and degree of economic integration that is mutually desirable cannot be computed exactly in advance. Timing is perhaps the most important thing. It must be quick enough and thorough enough to rescue Canada, but slow enough to minimize damage to Britain. And it must be permanent. Canadians must not be left apprehensive about a reversal of U.S. policy.

Britain is already compelled to find more and more of her economic salvation within the European orbit. In her new position Britain will probably be the first to see that in the 20th century Canada's lot is inevitably cast with that of the U.S. and so give a mother's blessing to the union.

Political integration may be desirable, and welcome, some day, but it is not now an issue. Economic union makes sense now. It is urgent and desirable for both countries. Who's against it, and why?

The Financial Post Says "No"

The other avenue for immediate action is the Canadian demand for further direct reciprocal trade negotiations following the Geneva tariff concessions.

Take the case of the fine paper industry. Nothing was done at Geneva to change the prohibitive tariff which now bars Canadian fine papers from entering U.S. Yet many Canadians believe that free entry of fine papers from Canada into the U.S. would open up the greatest new single avenue of opportunity for Canada since the removal of the newsprint tariff in 1911.

In this case, Canada has the natural resource. She has shown her ability to match American skill and enterprise in developing that resource—given opportunity of an enlarged market. The willingness of negotiators and legislators at Washington to discuss this and similar situations is something which brooks no delay and which is a quick and relatively easy step toward greater integration of the two economies.

Talk of "customs union now" is premature. To press for it would rouse opposition and dissension; would postpone or wipe out the opportunity for immediate improvement in Canada-U.S. economic relations.

Canada hasn't yet come to the "fork in the road." But she does want improved economic relations along the 49th parallel NOW.

...

Feed Stock-Piling Saved the Day

A fodder bank instituted by the Saskatchewan department of agriculture proved its worth this spring when farmers, late in April, were still crying desperately for feed.

Hon. I. C. Nollet, minister of agriculture, revealed 2,000 tons of feed, put up last fall by the government, was disposed of within five days after it was released to municipalities for distribution. Much more could have been sold.

Mr. Nollet announced next year's fodder program would be more extensive than last and urged individuals and municipalities to get behind the plan.

Throughout northern Saskatchewan scores of farmers lost cattle and horses. Among them were Cando farmers who last fall sold hay they thought they would not need.

Livestock and Poultry need

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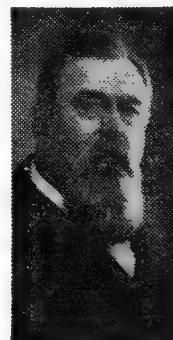
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The West's Glaring Weakness Was Shown In Railway Debate

By MAUD FERGUSON

OTTAWA: Listening to the Commons in April was like hearing an old gramophone record. Everything that has ever been said in the past on the platform or in the press about freight rates was said again. It left me with the sad feeling that until the West manages to absorb a million or so immigrants and gets a heavy representation in Ottawa, that its wails will largely go unanswered.

Obviously legal and statistical arguments are not winning a better deal for the west, but if political expediency demanded it there is very little doubt that some sort of solution, either good or bad, would be found. Politics work like that.

While the whole opposition condemned the government's decision to back up the Railway Commissioner's ruling in favour of a 21 per cent increase in freight rates "right across the board", it was only the C.C.F. and the Social Crediters who made a concrete proposal as to how the problem might be met. Both suggested "government subsidy."

M. J. Coldwell is believed to favour the idea of maintaining the present freight rates until the Committee on Equalization of Rates brings in its recommendations, when the subject could be thoroughly reviewed. In order to meet the immediate needs of the railways he would have the government pay them a subsidy equal to proposed 21 per cent increase. As we understand it, he does not regard subsidy as a permanent method of dealing with the problem.

Silent Western Liberals

Most of the 18 western Liberal members maintained an unimpressive silence. In party caucus such a small group cannot cut much of a swathe

but in the House they usually make the West's point of view felt. But not this time. Maritime members, whose constituents were equally enraged, expressed displeasure but in the same breath promised to back the government. So a solid Liberal front was maintained.

Incidentally, when the subject was brought before the Cabinet, western representation was practically non-existent. B.C. is not represented since Ian Mackenzie's appointment to the Senate; Mr. McKinnon is known simply to be "doing time" until his retirement; Mr. Gardiner was in the west and Manitoba's Mr. Glen was ill in a Montreal hospital.

The reason for the silence in the House was of course obvious. No party could possibly want to run an election campaign just at the time it is appointing a new leader. Solidarity on the freight rate issue was necessary for survival. It was really only a few over-optimistic Tories who thought the C.C.F.'s want-of-confidence motion would split open the Liberal ranks.

Everyone is agreed, who has studied the subject — even the most violent enemies of the railways — that there is nothing easy about equalizing freight rates. The subject gives plenty of scope for cursing and swearing but no quick and obvious answer is at hand as the rates vary preposterously in every part of the country.

"Of course trucking rates should be set, too, in order to make any scheme work" said one man.

"Oh H—!" said another, an impassioned westerner "By the time the Committee gets around to equalizing railway rates, they'll probably have to work out aerial freight rates as well. There's no end to this."

Brandon Winter Fair Sets Attendance Record

By M. TREVOR HOLLAND

BRANDON: Championship material was plentiful at the Manitoba Winter Fair, a week-long competition embracing all phases of agriculture, which was held in Brandon, April 5 to 9, inclusive. Attendance figures, estimated by officials, neared the 20,000 mark, which is a record for this annual show.

Highlights of the week's program included the presentation of the awards in the National Barley Contest, a special presentation to J. R. Bell, provincial livestock commissioner; and the appointment of the late Dr. Cora E. Hind, the late Alex. Galbraith and the late Andrew Graham to the "Pioneers of Manitoba Hall of Fame." Six framed, enlarged, photographs, including the three mentioned above now hang in the board room of the Provincial Exhibition as part of the Hall of Fame inaugurated at last year's winter fair.

Besides the main show, the "Industry for Agriculture" section, an exhibition of commercial displays supervised by the various firms supplying the agricultural producers, was set up in the Armories next door to the Brandon Arena.

Approximately 200 people attended the banquet in honor of the National Barley Contest winners. Hon. D. L. Campbell, minister of agriculture, presented first prize to J. W. Bussey, of

Airdrie, Alta., in a special ceremony in the Arena, following the banquet. Another Albertan, A. Henry, Legal, took second prize and two Manitobans, George Elias, Haskett, and J. F. Bradley, Portage la Prairie, came third and fourth.

A representative gathering of livestock men of the province attended a complimentary dinner given in honor of J. R. Bell, who has been active in the Livestock Branch, Manitoba Department of Agriculture, for the past 25 years. Neil Muir, president of the Manitoba Shorthorn Breeders' Association, on behalf of the breeders, presented Mr. Bell with a cheque for \$1,000, a bound address and a framed picture.

The younger generation of Manitoba farmers were not forgotten for there was a boys' and girls' calf club competition and 24 youthful exhibitors turned up. They paraded with their animals on one evening devoted to honoring the achievements of young Manitobans in agriculture.

The biggest egg show ever held in Canada was one of the features of the Fair. Four provinces, Manitoba, Saskatchewan, Alberta and British Columbia, were represented in the competition open to registered egg grading stations. Of the 12 first prizes, British Columbia captured 1, Alberta 4 and Manitoba 7.

The final day saw the annual auction sale of cattle and swine.

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The Model "CC" is made in 5-, 6-1/2-, 8-, 10-, 11-1/2-, and 14-1/2-foot sizes. It is available with either stiff or spring teeth.

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The Things To Look For In Spraying Machines

(Dominion Experimental Farm, Lethbridge)

FROM experiences of the past two seasons, the low volume — low pressure type of sprayer, which applies the 2, 4-D solution at a rate of 4 to 5 gallons per acre, has proven to be very successful. The use of this small quantity of water greatly reduces the cost and inconvenience of weed spraying, and also will help to increase the acreage that can be covered with a day's work.

If a machine is to be purchased for weed spraying only, then the machine possessing the greatest number of desirable features at the lowest cost should be purchased. However, if the machine is intended for such other jobs as spraying cattle for warble fly control, potato spraying, and root cellar spraying, a more expensive machine with an adjustable pressure range from 30 to 450 pounds is likely to be the best investment.

Some of the things to be checked when purchasing a sprayer are listed below:

1. **NOZZLES.** The nozzles should apply the 2, 4-D spray solution, as a flat fan spray, uniformly throughout the length of the boom. The nozzle orifice should be within a size range to allow for a rate of application between 3 and 5 gallons per acre at pressures obtained from the pump, and at speeds obtained with the individual tractor.

2. **BOOM.** The desirable length of boom will vary with the type of land on which the machine is to be used — short booms for rough or hilly land, and longer booms from 30 to 40 feet for level land. The boom should be rust-proof, and have sufficient sup-

port to prevent "whipping". Further, the boom should be adjustable for height.

3. **PRESSURE GAUGE.** To insure that operating pressures remain constant, a pressure gauge should be on the machine and mounted where it will be visible to the operator.

4. **PRESSURE REGULATOR.** A regulator should be provided so that any pressure adjustment can be made easily.

5. **PUMP.** An anti-corrosive pump will help insure good operation and uniform rate of application. Pumps with rubber vanes or other rubber parts are unsuitable for use with the ester type of 2,4-D.

6. **TANK.** The tank should be easily filled and drained, and should be covered to keep out dust and dirt. It is best made of some material which is rust-proof.

7. **FILTERS.** A good filtering system is essential. Some means must be available or provided for filtering solution into the tank. Filters also should be provided between the tank and pump, and at the nozzles.

8. **CONSTRUCTION.** The whole sprayer should be simply and well constructed of high quality material. Repair parts should be readily available.

9. **CALIBRATION.** A chart should be supplied with the sprayer to give information regarding the rates of spray distribution at various pressures and speeds. If no such chart is available, the individual purchasing the machine must spend time calibrating the sprayer so that the

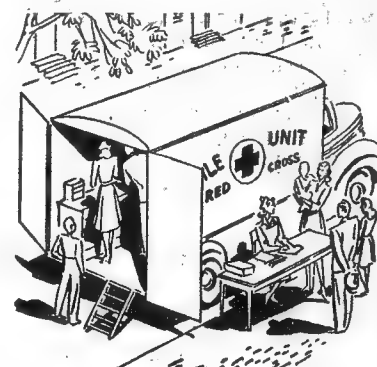
(Continued on page 19)



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THE EXPERTS ADVISE —

(Continued from page 18)

2,4-D can be applied at the recommended dosages.

10. **MARKER.** Some type of marker is desirable, but at this time we know of no machine which has a fool-proof marker.

Seed Growing Rules Are Getting Tighter

FARMERS considering entering the registered seed growing field for the first time are warned to do some checking first. Here are some of the regulations:

No seed can get the seal of approval of the Canadian Seed Growers association unless the grower possesses a membership certificate. Only the actual grower of registered seed will be acknowledged by the association. That is to eliminate the practice of having one man contracting with several farmers to grow for him. The association is considering some other important regulations to tighten control of registered seed growing.

What Next?

Now its D.D.T. for cut worms. Quebec experimenters recommend one pound of 50 per cent D.D.T. powder to 25 pounds of bran and moistened with water. To make the dish more tempting it is advisable to add a small amount of sugar or syrup to the water before mixing with the bran.

The Arguments For Barley Planting

HERE are the arguments why you should grow some barley some place on your farm, as tabulated by A. M. Wilson, Alberta feed crop commissioner:

Barley produces more pounds of grain per acre than either wheat or oats. It matures quickly and facilitates spring and fall anti-weed cultivation. As a substitute for summer-fallow it keeps farms weed free, retards the loss of soil by drifting.

The experimental farm bulletin adds:

Barley is by far the best hog feed grown in Canada. The excessive use of oats causes unthriftiness in young pigs and results in lack of finish and a lower price at market weight.

Variety Is Important

THINKING of planting some fruit trees this year? Don't let anyone talk you out of it. But make sure that the varieties you order are recommended for your district. If you are in doubt, write the nearest experimental farm for advice. A variety that has proved satisfactory in one area may fail in another. The types that will be recommended are those that have been tested and have the best chance of maturing and bearing fruit.

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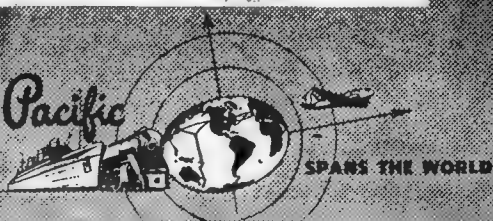
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In Nature's Wonderland

The Home Hunters Of The Bird World

By KERRY WOOD

(Author of Three Mile Bend, Birds and Animals of the Rockies, A Nature Guide for Farmers.)

THE Canada Goose is mankind's favorite harbinger of spring. No other bird can awaken such an excited response in our hearts, and when we see their graceful flying wedges etched against the far skies and hear again the trumpeting challenge of their freedom-loving kind, we are finally convinced that winter's reign is over and the lovely season of spring has come back to our world.

Have you ever watched the flocks come warily down to the lakes and rivers of the northland, circling twice to scout the landscape for possible enemies? When they are convinced that Man, the Enemy, is not skulking near to send leaden death into their bodies, how gratefully they glide the final feet to the water and fold their giant wings after the long flight from the last resting stop.

Each stopping place claims a quota from the marshalled ranks. Seldom do the pairing birds break away from the Vee'd flocks in flight, but as each halt a few birds linger behind when the main group launches forth again to continue the northward journey. Sometimes only a lone pair will stay on the water, but often three or four mated couples remain behind as the flock lifts from the lake or river and rises into the blue vault. The lingering couples still feel the ties of the sociable flock and many an excited cry rings out as the birds on the water plead with the fliers to come back, to stay in this safe haven a little longer. But the flock flies on, a waving line that soon disappears into the pale

horizon. The paired birds on the water turn back to their feeding and resting, then set off, two by two, on the important business of finding a nest site.

The Home-Hunters

They are not easily satisfied when studying the landscape for home-sites. Watch a restless goose paddling ashore on peninsula points, poking her long neck out to study the shelter, the shrubbery, the piles of driftwood, or any hummock of earth providing a vantage point from which she may view the surroundings. The gander sometimes follows her, but more often the wary male stays on the water to watch for enemies while his mate does the exploring. Their nest-site locations are varied: a rocky promontory; a grassy meadow, screened by willows, alongside a little river; the top of a haycock or straw-stack; a moated island out in the centre of a marsh or stream.

Quite often, to the continual amazement of mankind, they forsake the ground entirely and select a home-site high up in a lofty tree, utilizing the massive platform of a hawk's old nest as the spot on which to place their feathered matting and start the egg-clutch.

During the egg-laying and incubation time both birds stay close to the nest-site and, except in the case of a tree-nest, seem to purposely forget that they can fly. Perhaps instinct keeps them grounded, in order to avoid attracting the attention of enemies to their nest location.

When the egg-clutch is complete, the gander shares with his mate the tedious duty of incubation. Seldom is the clutch left unguarded, and the setting bird has only to utter a low note of warning to bring the watchful consort from the look-out point nearby. At this same stage among the ducks the drakes are sportively restless and soon fly off about their own affairs, but Canada Geese are devoted couples, completely engrossed with their season's responsibilities.

Soon the young ones break from the shell and follow close to their parents' flanks on the first trip to the water. In a moment they are busily feeding, straining the minute plankton from the waters as their first food. Then starts the summer's work of growing large and strong, with many a lesson in watchful caution taught the impetuous young during their early days. By the time the flight feathers sprout and grow, they are nearly as proudly wild as the parent birds. Flight gives them an escape from mankind's covetous fingers and sends them along the lonely rivers, out to the wide waters of lakes and into the safest corners of the marsh-bogs.

At first there is only the family, six or seven birds in all. But gradually, as they fly farther from the home waters, they meet other family groups and soon gregarious instincts assert themselves and the flocks increase in size. By the time bright September has handed its lovely colors to fading October's care, family ties are forgotten and old and young are free to follow their own dictates.

Then comes the golden of Indian Summer, with tingling nights to warn of winter's approach. Soon our favorite harbinger of spring lifts giant wings in steady rhythm and turn the black-stockinged necks southward again, and the glorious flight music comes bugling down to earth-bound humans to awaken old longings in our gypsy hearts.

Following the annual meeting of Ducks Unlimited (Canada), held in Winnipeg, it was announced that the organization will spend \$225,000 on prairie "duck factory" marshes.

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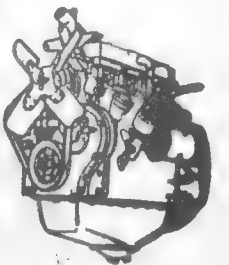
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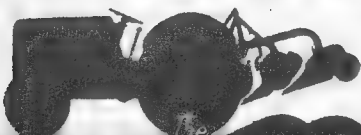


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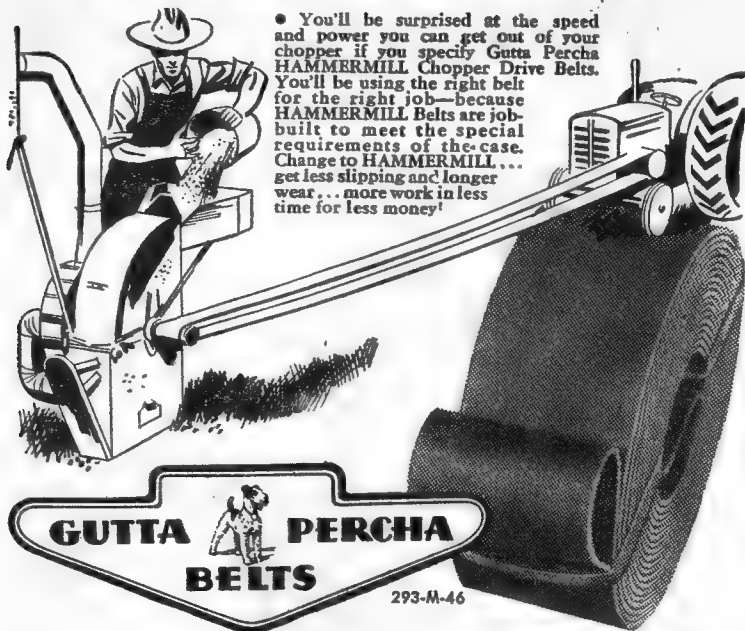
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The Farm Wives' Top Desire — A Home With Inside Plumbing

(Specially written for the Farm and Ranch Review by the Canadian Institute of Plumbing and Heating.)

HOW long does it take to pump and haul the water from your well to your kitchen? A few minutes a day? Well, how few or how many? One farmer got right down to cases in answering these questions. He discovered that he and his family spent an average of more than 50 eight-hour days every year doing nothing but pumping and hauling water.

But regardless of what the answer is, it is unnecessary labor when it can be done simply, easily and economically by machinery. Western Farmers have kept pace with the strides made in mechanizing farming. They demand the latest and best in farm machinery — for everything except where it is most important; in their homes.

If a poll were taken of the farm wives of western Canada on their greatest desire, there is small doubt that "inside plumbing" would lead all the rest. As rural electrification spreads, more and more farm homes will be equipped with inside toilets, bathrooms and sinks. In provinces or districts where electrification lags pumps have been installed on many farms. The primary purpose was for watering stock. It is a simple matter to adapt such a system for domestic use as well.

Remodelling a farm home to make room for inside plumbing does not have to be a major undertaking. Modern equipment is compact and requires but little space. An alcove or closet near the back door would be ideal for a shower stall. A shower takes less water than a bath, so if adequate water supply is a problem,

don't forget the advantages of using a shower.

A bathroom ought to be placed where it will be convenient for the whole family. In a two storey house, the best place is over the kitchen. This will save on pipe costs and on labor because all the pipes needed will go in one wall.

A hand basin should be located near the back door where the family takes off its work clothes. Instead of having separate tubs for the laundering, it is possible to get combination sinks with two compartments. A shallow one is used for dishes and a deeper compartment for washing clothes.

If a full bathroom is being installed, it can be done in a space no larger than five feet by seven feet. Built in bathtubs cost a little more, but they are worth the difference, dust does not accumulate, water cannot spill over the back and leak down to ruin walls. They take up less space than the old fashioned kinds. They are made now with lower rims, which make them easier to get into and out.

Aside altogether from the argument of convenience, which ought to be enough, another aspect of farm life should be considered along with inside plumbing. That is health. Many of the ills and pains we have today can be traced to lack of proper toilet facilities in our farm homes when we were children. Reluctance of children to venture into cold, outside toilets in winter leads to constipation and a long list of resulting troubles. Many doctors blame arthritis, chillblains, strained backs and other ailments on inadequate toilet facilities.

Drinking water, that stands for hours in a pail, is obviously not as pure as that coming directly from the well.

While the installation of a water system may take up space that at first glance cannot be spared, it usually results in having more room in a house. Water stored in pails and tanks uses space. Tubs for washing have to be stored. If a measurement were taken of the amount of space used by these rudimentary methods of keeping water indoors, it would probably amount to more than the inside plumbing will require.

In addition, some substantial savings in space may be made by the remodelling of the kitchen which becomes possible when the plumbing is moved indoors.

In some localities, obtaining the necessary skilled help may prove a drawback. Manufacturers and supply concerns, who have become more and more aware of the immense market on the prairie for their goods and services, may be able to help hurdle that difficulty. One way in which it can be overcome is by the club method. If several farmers in a district got together and decided to install water in their homes at the same time, it would be well worth while for a contractor to come quite a distance to do the job.

The University of Manitoba plans to concentrate all facilities at the Fort Garry site by September 1, 1949, according to an announcement made by W. J. Parker, chairman of the board of governors.

Americans consumed 10 to 15 per cent more food per person during World War II than they did during World War I.

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The Human Comedy

"All the world is mad, save thee and me;
—And sometimes I despair of thee!"



STOP THIEF!

The Sheriff's office at Gooding, Idaho, recently reported the theft of a twenty-ton steel bridge from an abandoned crossing over the Malad River.

* * *

Three men were held on a grand larceny charge in connection with the theft of a four-ton anchor from a vacant lot in Brooklyn. One suspect admitted trying to steal the anchor all by himself, but had to enlist the help of the other two.

* * *

A contractor in Chicago reported to police recently that someone stole a steam shovel from an excavation job after sending the night watchman home on a spurious tip that his wife had been seriously injured by an automobile.

* * *

Nerve:

Police of Algonquin, Ill., were felicitating themselves on a crime-free period of several months when burglars broke into the police station and stole two revolvers, three boxes of cartridges, ten special police badges and the keys to the jail.

* * *

On Duty:

A man in Baltimore was arrested on a charge of stealing another man's watch dog, a young Doberman pinscher with a fine pedigree. The owner said that the dog was "on duty" when stolen.

* * *

Lesson:

When William Clark of Ionia, Mich., found a stranger stealing tools from his garage, he threatened to beat the intruder up and the man fled. Three hours later, while Clark was pattering around his garage, the man returned, pointed a gun at him and robbed him of \$273 and a selection of his best tools. "That'll teach you to treat people better," the burglar observed as he made off.

Stout, Eggs Revive Bull

LETHERINGHAM, England—Humphrey, the bull with the crumpled horn, is healthy again but his diet never will be the same.

The "room service" has ended and he will spend his time alone.

One month ago the £2,000 (\$8,000) Ayrshire bull stormed into a heavy farm gate. For 10 days he was helpless with a broken left horn and other injuries. Humphrey, who weighed one ton, lost 500 pounds.

Veterinaries fed him gruel from a bottle but the bull languished. So the vets ordered a diet of honey, 18 eggs and four bottles of stout daily.

Attendants tenderly wrapped the ailing bull in 20 army blankets, placed him in a meadow, and, said farmhand Walter Johnson, "waited on him hand and foot, day and night."

The "nursing shift" ended Saturday but Johnson can't forget how Humphrey reacted after the diet of eggs and stout.

"He used to roll his old tongue and wear a sort of self-satisfied smirk."

* * *

Russian Roulette

Patrolman William Porter of Minneapolis shot himself in the head with his service revolver while playing a game known as Russian roulette.

Police said the 24-year-old policeman probably would die. The bullet pierced Porter's right temple and emerged from the top of his head.

Russian roulette is a game wherein the player removes all but one of the cartridges in a revolver, spins the cylinder, then places the muzzle against the temple and pulls the trigger.

The gun discharged the first time he pulled the trigger.

* * *

Millennium.

In Victoria, B.C., the Canadian Red Cross Mobile Blood Transfusion Clinic got some blood from A. Stone.

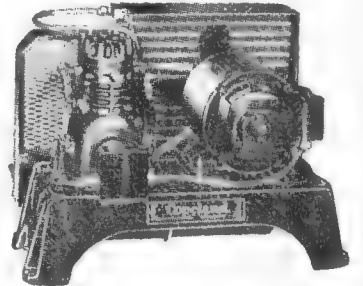


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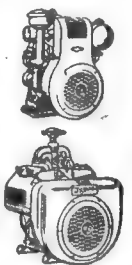
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Letters To The Editor

Readers Locate Our Sod House

To the Editor:

That picture meant a lot to me. It looks very much like the sod house I built when I first came to the prairies in 1904.

Sherman Howitson,
Battleford, Sask.

The Editor:—The home I fully believe is the home of the late Iwan Yurashyk, about 5 miles straight south of Hafford, Sask., the picture was taken by a Robert England, who was imported by the late Dr. J. T. M. Anderson to make fast Canadians out of the Ukrainians.

Home on the Range, is quite a proper name for it, it wasn't only a home, it was a mansion, there were rooms for all the family and for guests too, the family consisted of many boys and girls, I spent some

time therein in 1910 or 1911 with my late father.

There are some old timers left there that could tell us more about the whole story, and I believe that if you wished closer information you could get it through a grand-daughter, Mrs. Michael Werezak of Hafford, Sask. I think that a son, Michael Yurashyk occupies the old homestead now, but am not sure.

Hope I am right. Yours truly,
Alexander J. Bodnarczuk, Arran, Sask.

Editor, — Re your illustration of and request concerning sod building, I assisted in building a number of these, also used one as a house for a number of years in southern Sask.

Fifty years ago when a young man of twenty-two I spent over two years taking photos through south eastern Sask. and south western Manitoba.

Your illustration resembled one sod building I have a good print of so closely I thought it was a copy but mine is somewhat different. I have many prints also some negatives but all are back in Sask. I may not get there for a couple of months yet but when I do I shall send you the print of this sod house with the owner and family. While I am not sure of the name I believe I still have my old order book.

Many of these photos have amusing anecdotes connected with them which might prove interesting to some at this date. Yours respectfully,

E. Bearn, Salmo B.C.

Question and Answer

Editor, — In the hope of clarifying my own thinking and perhaps the thinking of others, I submit a question.

"What can be said against the Grain Exchange that cannot be said against any part of our economic system?"

"Anti-Socialist." — Naramata, B.C.

Editor's Note: — Plenty. See our editorial page.

Fish and Game Ass'n.

The Editor,
Farm and Ranch Review

Dear Sir: — Mr. Kerry Wood's article "The Predator Police Force" infers by implication that the Alberta Fish and Game Association according to press articles is in favour of conducting a campaign for the reduction of beneficial hawks and owls. To the contrary our annual convention went on record as campaigning for the reduction of three species namely Horned and Snowy Owls and the Goshawk, these three are the ONLY species prevalent in the winter on our prairies and foothill regions and are DEFINITELY HARMFUL to all upland game birds, and as well to poultry of all kinds. This organization does not have a campaign during the summer on hawks or owls, and discontinues the payment of any bounties on this class of predators in order to safeguard and protect the Swainson and other beneficial hawks and owls. This organization moreover carries on a campaign of education amongst school children and adults by way of supplying literature films and posters so as to enable farmers and others to distinguish the harmful from the beneficial predators. The discontinuance of bounty payment on March 31st, as per enclosed poster is definite. The association by its adopted policy of killing hawks and owls during the

(Continued on page 25)

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Letters to the Editor

(Continued from page 24)

winter which are the harmful predators found, and discontinuing on March 31st when the migrants return thus protecting the beneficial predators is carefully carrying on the best conservation practices known. I am glad Mr. Wood has suggested in his article that the sportsmen may have designated the harmful hawks and owls only would be destroyed, and of course the newspaper reports left out much to be desired. I enclose as well for your information copies of the literature which is supplied not only to our affiliated groups but to farmer and schools throughout the province. Will you be good enough to print this letter and oblige. Sincerely, G. M. Spargo, Secretary-treasurer.

Coarse Grain Price

The Editor, — Allow me to congratulate you on the splendid editorials appearing in recent issues of your paper. They pack a punch and contain a clarity of facts so sadly lacking in other editorial columns which we farmers expect to champion our rights and declaim the injustices imposed on us.

All grains handled under a grain board may be a good thing but we farmers don't want a grain board at "any price". The ceilings and floors can be so low that we can take a beating on coarse grains as well as on wheat. Last fall prices proved this.

There seems to be more concern for lower coarse grain prices for the commercial feeder than higher prices for the coarse grain producer, with the eastern feed users leading the cry, backed up by the C.F.A. We farmers are completely fed up with being the shock absorber for the Canadian consumer and the general Canadian economy.

The re-imposing of price ceilings on our produce, along with export restrictions, and the lifting of ceilings on what we must buy is the rankest kind of discrimination and exploitation. Organized Labor would not stand for it. They would soon kick the lid off. However, we farmers are docile, and dumb enough to stand for

it, and content ourselves with passing a resolution.

Thanking you for your forthright "Editorials." H. R. Boutillier, Hairy Hill, Alta.

Our Liquor Editorial

Dear Sir — I have read your paper for year and tho' its small, I'll say it has been very good.

I have often thought of sending in some kind words — as they don't cost anything — anyway — but never got to it.

Saying kind words like a lot of things is almost a lost art. However, I am in agreement with your article on the liquor traffic.

I am not a temperance crank, but always feel sorry for people who become slaves for liquor, and always had an aversion for being in the business as I never wanted to be guilty of being in a business that would carry on or encourage the slaves sad state.

So I think you are right that some arrangement for care for these people who have spent all their earnings in liquor should be entitled to care, as after all, they rank amongst the biggest taxpayer if they have spent most of their money in cigarettes and liquor.

Then, too, they mostly become down and out before the old age pension is due them, and lead a miserable existence trying to eke out a living.

So I heartily congratulate you on bringing the point to light and it would be nice if this province could be the first to do something worthwhile along that line.

Bindloss, Alta. Emil Lorentson.

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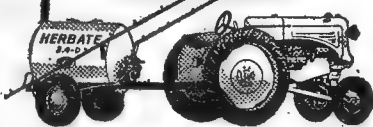
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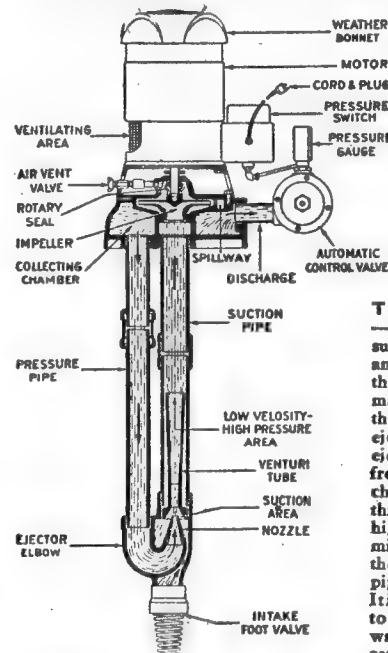
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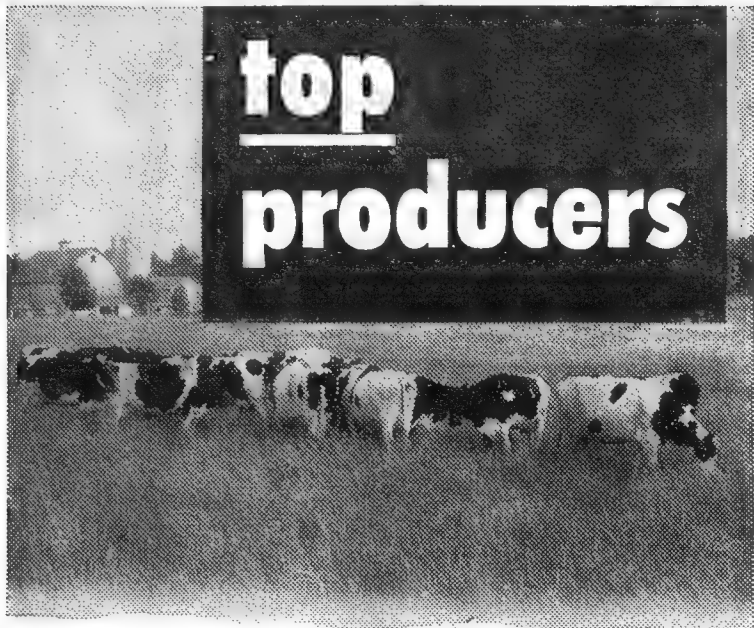
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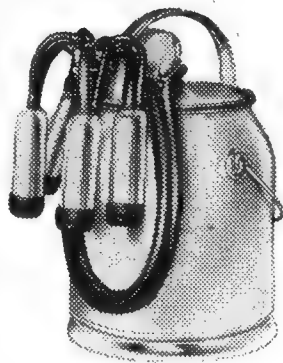
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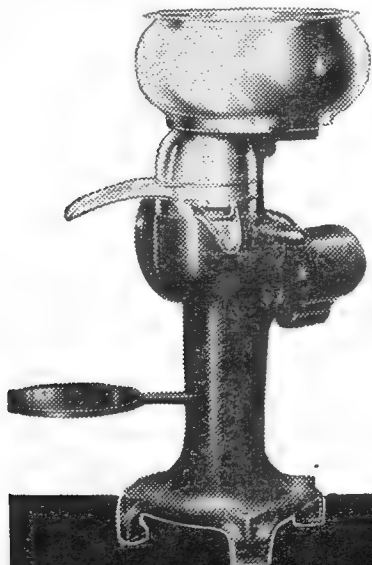
Increased milk production can also bring more profits in cream, when you use a separator that skims close, cleans easily and is sturdily built.

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HERE'S to YOUR HEALTH!

WE DON'T EAT WELL

IT is gardening time and good gardening can mean better health. Most people in Canada eat plenty, but thousands of them do not eat well. In a world half full of people who are starving it seems a little silly to talk about malnutrition in Canada, nevertheless it does exist here and not just because of the high cost of food.

Dr. L. B. Pett of the Department of National Health and Welfare made two nutritional surveys, more than a year ago. In one he and his staff examined 1,495 school children in British Columbia; in another they examined 1,465 in Saskatchewan and in both surveys they found signs of nutritional deficiencies.

In discussing the subject he points out that more deaths in Canada in 1944 were ascribed to nutritional deficiency diseases than to infantile paralysis. Forty-two people died of rickets, pellagra, beri-beri and scurvy while 38 died from polio. In this day and age such a report sounds fantastic, but it is true, so it is important to give some thought to it.

The survey showed that 56 per cent of the children examined in Saskatchewan and 40 per cent in B.C. were low in ascorbic acid, which means Vitamin C. The obvious conclusion is that those children needed more fruits and vegetables in their diets.

As it is not always easy on a western farm to give children oranges, grapefruit or tomatoes, even canned tomatoes or canned grapefruit, it is very important to make up for it by having a gardenful of potatoes, turnips and cabbage.

However, to get back to the surveys: they also showed that 14 per cent of the B.C. children examined were too thin and 11 per cent were too thin in Saskatchewan. In B.C. 11 per cent showed definite evidence of having had rickets and 5 per cent showed evidence of it in Saskatchewan. There were various other signs of malnutrition and these all added up to the fact that Canadian children need more milk, more fish liver oil and more fruits and vegetables in their diet.

Although every doctor believes that well-balanced meals, which are necessarily vitamin-packed, give the best chance of good health, no doctor thinks that vitamins alone assure it.

Fortunately the vitamin fad is fading. Not long ago people were inclined, when they felt a little seedy, to rush out and buy a package of vitamin pills, often at great expense. It was silly, the doctor will tell you, because half the time it wasn't the vitamin the individual needed at all.

Everyone is different and the patient's "personal idiosyncrasy" decides his needs. Here is an example of it: Helen was subject to very bad colds. A winter rarely passed that she wasn't laid up for weeks and she felt miserable most of the time. A research doctor in Edmonton was studying Vitamin A at the time and he decided to give her enormous doses of Vitamin A and D and see what effect it had. Disappointingly enough it had no effect. However, he tested her and found that her system had absorbed very little of the vitamins and further examination showed that her gall bladder was not functioning properly. When that ailment was treated and the vitamin doses built up again, her colds became less severe and finally less frequent. She could have taken vitamin pills all her life without much effect, because her disturbed gall bladder would not have let her absorb them.

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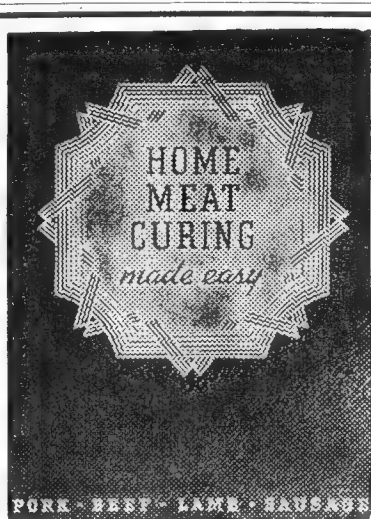
Vitamin C Content of Canned Juices

WE all know that we require a certain amount of Vitamin C in our daily diet — and many people try to get that amount out of the canned fruit juice they drink. For those fruit-juice fans, *Nutrition Notes*, an American publication, recently worked out and published a canned juice chart showing the amount of juice which daily would meet a person's Vitamin C requirements, and the cost of that juice.

Miss Margaret E. Smith, Director of the Health League's Nutrition Division, has worked out an equivalent chart showing average Canadian prices.

JUICE	COST PER	
	AMOUNT SERVING (in ozs.)	(in cents)
Orange	6	3¾
Grapefruit	8	4
Tangerines	8	4½
Orange & Grapefruit	8	5
Tomato	16	10
Pineapple	28	35
Apple	30	36

Nutrition Notes states that Vitamin C in grape juice, prune juice and apricot nectar is negligible.



NOW!

You can get this 116-page fully-illustrated booklet showing method of farm slaughter and curing of pork, beef, veal, lamb and poultry.

It contains many meat recipes, tells how to corn beef, to make sausage, to can meat and poultry and how to cure home-grown meats.

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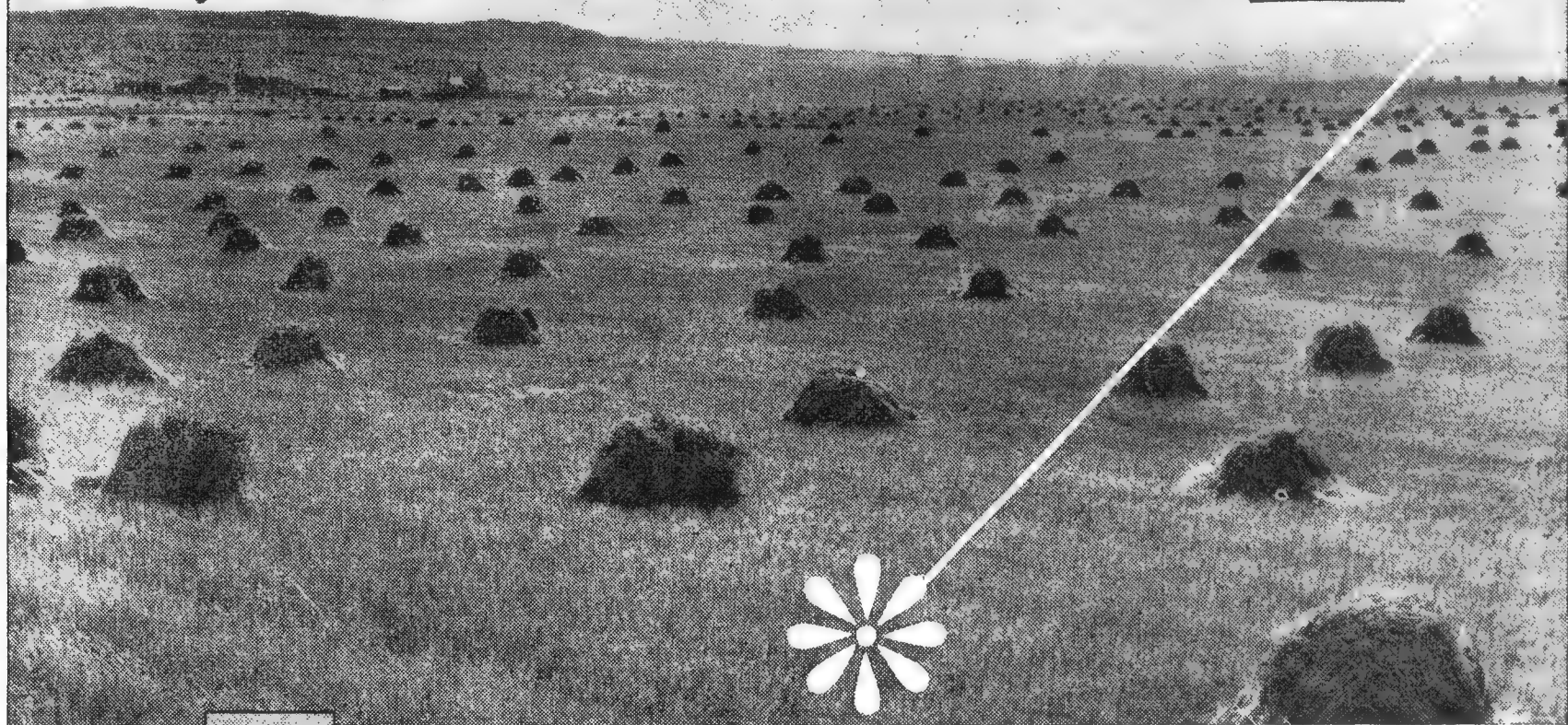
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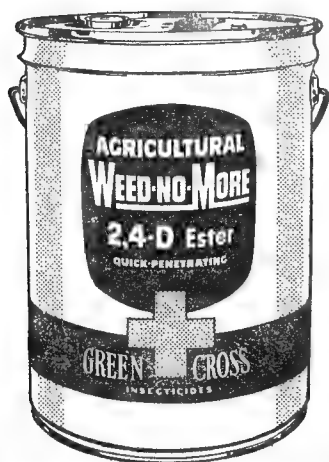
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Proof of performance! Over 250,000 acres of grain fields in Western Canada were successfully sprayed last year with Green Cross Agricultural Weed-No-More, resulting in excellent weed control, with crop increases of three bushels per acre and more.

This practical experience on a commercial basis established proof of the outstanding superiority of the butyl ester of 2, 4-D, as developed and pioneered by Green Cross in Agricultural Weed-No-More.

Applied early, at the time and dosages recommended, Green Cross Weed-No-More kills weeds before they get established, thus preventing them from shading or choking out the young grain or draining moisture and nourishment from the soil. It penetrates so fast that rainfall, even within a few minutes after application, can not wash it off or weaken its killing power.



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FOR your tractor . . . for your truck . . . for your car, and for every other farm use, there is a Firestone tire engineered and built to do the job—and to do it better than any other tire made.

There are certain definite reasons why Firestone tires perform better and last longer. One is Firestone's understanding of farm tire requirements based on years of experience in the farm tire field. Another is the never-ending Firestone research and development program to build the best today—and make it still better tomorrow. And still another vitally important reason for the superiority of Firestone tires is the fact that they are built by the finest craftsmen using the finest materials that science and machines can produce.

You can save time, money and do a better job of farming if you specify "Firestone" every time you buy a tire for your farm. From now on make it a Firestone.

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Edmonton Show Makes History In Numbers, Quality Fat Stock

Facilities of New \$300,000 Livestock Pavilion Fully Utilized
as Entries for Fat Beef Double, Fewer
Purebred Bulls, More Breeding Swine.

(By Special Correspondent)

EDMONTON'S Spring Livestock Show teams up with Calgary Spring Show to give Alberta two records in the livestock industry of Canada — the southern event providing the biggest bull show and sale, the northern one excelling in its fat stock section.

The Edmonton show, which last year was freely acknowledged the largest and finest in the Dominion on the score of numbers and quality of cattle, eclipsed all records of 36 years by doubling last year's entry of fat stock. There were 40 carloads of finished beef, 80 groups besides single commercial cattle and children's baby beef, making 1,250 entries. Numbers justified the exhibition directors in spending \$300,000 to build the largest cattle pavilion in the Dominion to house the show and sale.

Purebred bulls were fewer in numbers and met keen demand with higher prices. The show of purebred swine was also excellent, bringing out 173 head that were much in demand by farmers "rushing back into pigs."

Manager Charles E. Wilson said the 1,022 head of fat beef sent through the sale ring in the new theatre adjoining the 250-foot pavilion, realized above a quarter-million dollars. With 138 bulls bringing \$52,000, 149 sows and boars \$12,000, and some registered female cattle sold, sale topped \$300,600.

There were no horses on show. The Edmonton Spring Light Horse Show will be held May 19 to 22. Heavy

horses will be exhibited at the summer exhibition, July 12 to 17.

Ed. Noad of Olds Shows Grand Champion Beef

Ed. Noad of Olds repeated his Calgary winning to capture the grand championship on fat stock at Edmonton with a purebred Hereford steer, one bred by Bert Sheppard of High River. It topped the sale at 83 cents per pound and was bought by The T. Eaton Western Ltd. The reserve went to the champion calf from the junior division, also a white-faced steer, shown by young Lawrence Kallal of Tofield, and bought by Eatons for 65 cents.

In the open commercial classes of the fat stock Noad and Kallal ran first and second in both baby beef and medium-weight beef classes while Noad took both top prizes in the heavies and the Alberta Hereford special. He won the Canadian Hereford \$50 special for best beef in the show.

Ivan Harris of Taber, with beefed steers won first for best group of light heaves, E. C. Selgle of Clyde came second with barley-finished stock. C. J. Kallal of Tofield had best five medium weight beef and A. T. Hines of Marwayne second. Milner & Steer farm, Edmonton was first with pens of heavy steers, C. J. Kallal second and T. J. Noad third. Championship in groups went to Milner & Steer, reserve to Kallal.

(Continued on page 29)

Fire Damage At MONEY-MAKER Plant Has Not Delayed Manufacturing!



FEEDS AND CONCENTRATES ARE IN FULL PRODUCTION

Thanks to the fire-fighting efficiency of the Edmonton Fire Department and U.G.G.'s auxiliary plant equipment in that city, there has been little interruption in the manufacturing of MONEY-MAKER feeds. Thus it is fortunately possible for us to maintain the same high standards of quality in every feed and continue distribution to U.G.G. elevator agents and Money-Maker dealers throughout Alberta.

CONTINUE TO MATCH YOUR GOOD MANAGEMENT AND QUALITY STOCK WITH QUALITY MONEY-MAKER FEEDS . . . TODAY!

Your local U.G.G. Agent or Money-Maker Dealer can Supply your Poultry, Hog, Dairy and Beef Cattle feed needs.



Over 41 years in service to Farmer and Stockman.

Edmonton Show

(Continued from page 28)

Carlot beef championship also was won by Milner & Steer white-faced beef fitted by Farm Manager Archie Carlyle; they sold for \$17.25 as did the reserve championship carlot finished by T. J. Noad of Olds. These were steers weighing around 1,500 pounds. A. E. Noad & Son won first and C. J. Kallal second on the medium-weight carlots which class of beef sold at \$17 to \$17.60 per cwt.

Sale of the commercial single beef ran at \$17.50 to \$22.50 for top prize-ribboned show stuff of baby beef and medium weights with some at \$25, while heavy steers brought from \$15 to \$20 — an average for singles of \$19.

Shorthorn, Angus Bulls Top Auction at \$700

None of the purebred bulls sold as high as a year ago, \$700 being the top realized for best young Shorthorn and champion Angus. General run sold better and there were not enough of the type stock to fill the need, so the average was higher, almost a hundred fewer bringing an average of \$67 better.

W. L. Robinson of Vermilion showed a yearling Shorthorn bull that was champion and sold for \$600. Metro Klompas of Andrew had the reserve, a two-year-old that fetched \$700.

The 55 Hereford bulls averaged \$341, same as last year when 70 moved through the ring. The top of \$590 was paid Sam Gould of Rosalind for the 15-month-old reserve champion.

Champion was 20-month Fort Mixer 18th, bred by W. Williams of Fort Saskatchewan and it fetched \$525. The first prize two-year-old was bred by Humphrey Evans of Ponoka, sold for \$430.

Aberdeen Angus champion bull brought Roy Ballhorn of Wetaskiwin \$700, a yearling from the same breeder at \$530 while his reserve, also a yearling, went for \$425. Six black bulls averaged \$395, compared with \$221 on 20 a year ago. One Red Poll bull sold for \$200.

Junior Calf Show Is Keenly Contested

All the benefit of post-war effort in improving stock was reflected in good competition provided by farm boys and girls in the beef and dairy calf feeding competitions. More than one hundred were exhibited and sixty juniors competed in judging competitions.

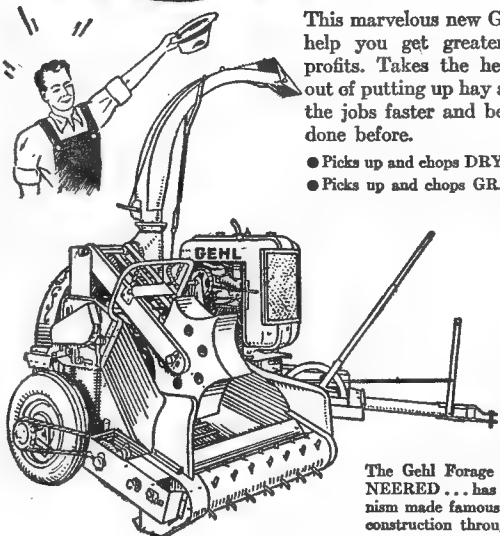
Phyllis Ellett, South Edmonton, was best young girl judge of calves, Susan Starko of Chipman winning second. Tops among boys were Reed Francies of Tofield and Tom Spady of Alliance. Best junior farmer judge was Bob Shantz of Wetaskiwin with Stephen Antoniuk of Chipman placing second. A brother and sister team, Mildred and Marshall Elenak of Tofield also stood high in the contest.

The directors of Canadian Poultry Sales, at the annual meeting held in Winnipeg, reported 1947 as one of the most satisfactory years in the history of this 20-year-old Co-operative sales organization.

"No Need to Be Short of Feed"

NEW
GEHL
FORAGE
HARVESTER

MAKES HAY and SILAGE
in Quicker Time...
WITH LESS WORK...FEWER MEN



This marvelous new Gehl Forage Harvester will help you get greater production and bigger profits. Takes the heavy, back-breaking work out of putting up hay and filling the silo... does the jobs faster and better than they were ever done before.

- Picks up and chops DRY HAY.
- Picks up and chops GRASS SILAGE from windrow.
- Picks up and chops COMBINED STRAW, which saves storage and makes better bedding.
- Row crop attachment cuts STANDING CORN (cane, etc.), chops and drops it into wagon.
- Separate FORAGE BLOWER elevates the forage into silo or mow.
- ONE MAN can operate it.
- Self-powered by an efficient engine. An easy pull for a two-plow tractor.

The Gehl Forage Harvester is FINELY ENGINEERED... has the fast, clean cutting mechanism made famous in other Gehl machines. Sturdy construction throughout.

Come in and see it

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DEALERS WRITE FOR TERRITORY FRANCHISE TO

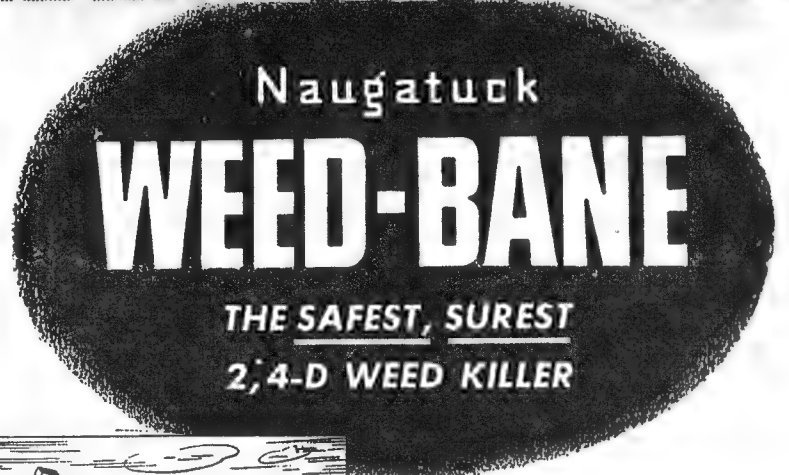
A. S. HORWITZ & SON,

501 - 2nd Street East,

CALGARY, ALTA.

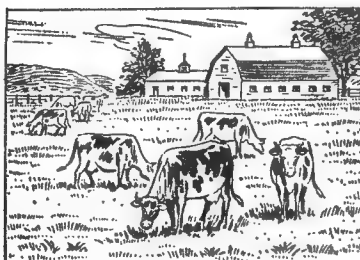
A GEHL WINS FRIENDS WHEREVER IT GOES

SURE DEATH TO MUSTARD & OTHER HARMFUL WEEDS



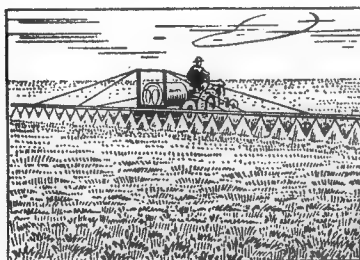
SAFE FOR CEREAL CROPS

Spray WEED-BANE in the post seedling stage, when grain is usually 6" — 10" high. Kills mustard, stinkweed, other annual and perennial weeds. Increases crop yields. FLAX: safely and effectively kills weeds in flax.



MORE STOCK ON SAME ACREAGE

WEED-BANE greatly improves pasture and range lands by killing noxious weeds. Result: healthier animals, more stock on same acreage.



EASY TO USE

WEED-BANE is a liquid soluble in water, easily measured, mixed, and handled. Spraying equipment readily cleaned by several flushings with water.

Ask Your Nearest Weed-Bane Dealer for Your Free Copy of the Folder "Why Grow Weeds?"

WEED-BANE is safe—non-toxic, non-flammable, non-corrosive — harmless to grass, soil, animals, humans. Host crops have greater tolerance to variations in solution strength and method of application.

WEED-BANE is the preferred triethanolamine formulation of 2,4-D, formerly known as Naugatuck 2,4-D Concentrate. It is quickly absorbed into the plant system, consequently rain following application does not impair effectiveness.

For safest, surest weed control in cereal crops, flax, grazing lands, fence lines, insist on the green liquid — WEED-BANE!



Naugatuck Chemicals
DIVISION OF DOMINION RUBBER COMPANY LIMITED

MORE PROFIT! LESS LABOUR!

With butter-fat bringing in high prices you can make even more profit with a labour-saving Renfrew Cream Separator. With a waist-high supply can and easy turning crank, the clean-skimming Renfrew gives long trouble-free service, yet costs no more than ordinary separators. Ask your Renfrew District Representative to demonstrate a Renfrew in your dairy.

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This time get a

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TRADE MARK
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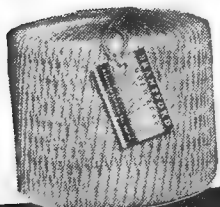


"They've got what it takes"

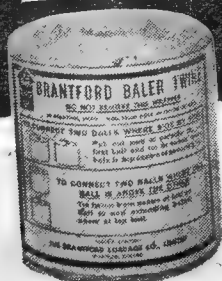


Practically every farmer nowadays knows about Brantford twines. You just can't beat them for binding or baling. They've got what it takes—and a lot more, too."

Yes, Brantford twines—whether for your binder or your automatic pick-up baler—are made from the finest fibres to provide maximum strength. They come full weight and full length... every inch treated with the most effective insect and rodent repellents known. Free-running, they don't tangle or snarl, but unwind smoothly. Make sure of complete satisfaction by ordering "Brantford" from your dealer—for your binder... for your baler. The Brantford Cordage Co., Limited, Brantford, Canada.



BRANTFORD BINDER & BALER TWINE



1-48

Handy Devices

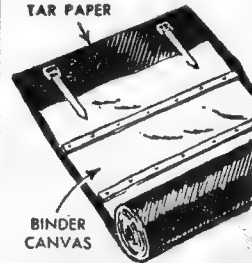
By Courtesy of the "Popular Mechanics Magazine."

CUTTING OFF END OF WORN BRUSHES EXPOSES SERVICEABLE BRISTLES

WHEN wire brushes become worn at the outer end, which is the portion subjected to hardest wear, cut off the end so that undamaged bristles are exposed. The end of the wooden back should be sized with glue or several coats of shellac to prevent moisture absorption.



TAR PAPER

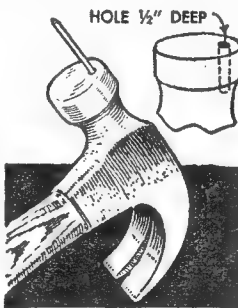
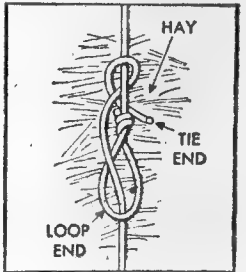


TAR PAPER PROTECTS BINDER CANVAS FROM DAMAGE BY RODENTS

AN effective way to keep rats and mice from damaging binder canvas in storage is to wrap it in a strip of tar paper. Use a strip longer and wider than the canvas and roll it as shown.

BALING-WIRE KNOT IS NONKINKING

MANY farmers who bale hay for home use follow a method of tying knots in baling wires which later eliminates straightening kinks in the wires if they are to be used again. As shown in the drawing, the knot is made by inserting the tie end through the loop, but instead of bringing it back on itself as in regular practice, the end is simply given one turn over the loop end.



HOLE IN HAMMER TO START NAILS

WHEN it is necessary to hold both the stock and a nail in position somewhere overhead, or when starting a finishing nail in a spot that is hard to reach, the problem can be solved by using an old hammer that has a hole drilled in the head to hold the nail. Drill the hole near the edge of the face so it will not interfere with hammering, and make it large enough to accommodate a nail of the largest diameter commonly used. To use, merely insert the nail in the hole, tap it lightly until it grips the wood, and then finish hammering in the normal manner.

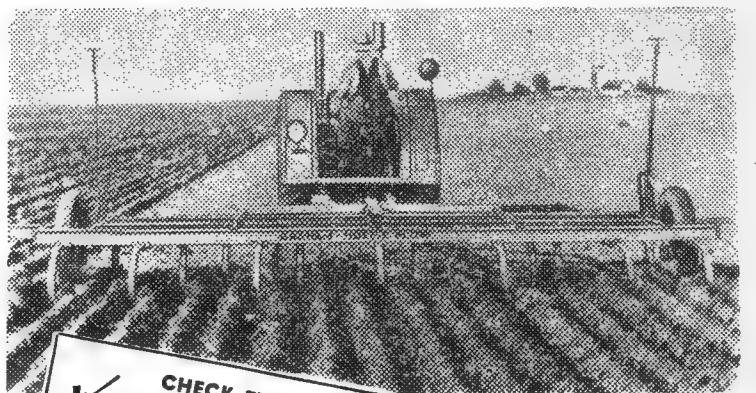
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GRAHAM Plow!

Try it on your own land. See for yourself how the new 1948 Graham Plow with Spring Release prevents erosion — gives greater yields at HALF the plowing cost!

FARMERS! Write today for FREE literature and the name of your nearest dealer to the address below.
DEALERS! Active dealers wanted. Write today!

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Manitoba Dairy Co-operatives Does \$5,000,000 Business

WINNIPEG: The first annual meeting of the Manitoba Dairy and Poultry Co-operative Limited — formerly two separate organizations, the Manitoba Co-operative Dairies Limited and the Manitoba Co-operative Poultry Marketing Association Limited — was held in Winnipeg, early last month. The two organizations amalgamated early last year when it was felt by the members there was too much duplication of services by each of their branches.

Total sales during the year of \$5,000,000, was reported by C. B. McLean, Grandview, in his presidential address to the delegates. He said that such a sales volume must have sound administration if the organization is to continue on a successful basis. He advised the delegates to give serious consideration to the volume handled in their discussions.

Mr. McLean warned that the history of co-operatives is one of continuous effort to improve the welfare of all members and should not be taken for granted.

Butter production in Canada during 1947 increased 6.9%, but the increase in Manitoba was only .9%. The report suggested a similar output was in prospect for 1948.

W. A. Landreth, president and general manager of Canadian Poultry Sales, a subsidiary of the Manitoba Dairy and Poultry Co-operative Limited and the Saskatchewan Co-operative Creamery Association Limited, presented the annual report of that organization.

Guest speaker at the annual banquet was T. J. Harrison, assistant commissioner, Board of Grain Commissioners, who recounted the devastation he witnessed on a trip made to Poland early this year as a member of a delegation sent by the Food and Agriculture Association.

Other speakers during the two-day session included, C. E. Wood, president of the Manitoba Federation of Agriculture and Co-operation; Hon. D. L. Campbell, minister of agriculture; Ben Lewis, of the Manitoba Hospital Service Association and W. B. Martin, honorary director from Shoal Lake.

At a meeting of the board of directors, following the general session, C. B. McLean was re-elected president with John T. Monkhouse, Elie, vice-president. Other directors are J. A. Patterson, W. F. McGregor, A. A. Forde, H. E. Batters, D. F. Campbell and W. A. Landreth.

While in Winnipeg attending the annual meeting of the Manitoba Dairy and Poultry Co-operative Limited, C. B. McLean, Grandview, president of

that association, was killed and his wife injured in a street car accident.

Mr. McLean had been active in the co-operative movement since 1924, and in 1926 was elected to the board of directors of the Manitoba Co-operative Poultry Marketing Association. He was elected president of that organization in 1941, and became the first president of the new co-operative following the amalgamation of the dairy and poultry groups.

John T. Monkhouse, Elie, vice-president of the association, will now take over the duties as president.

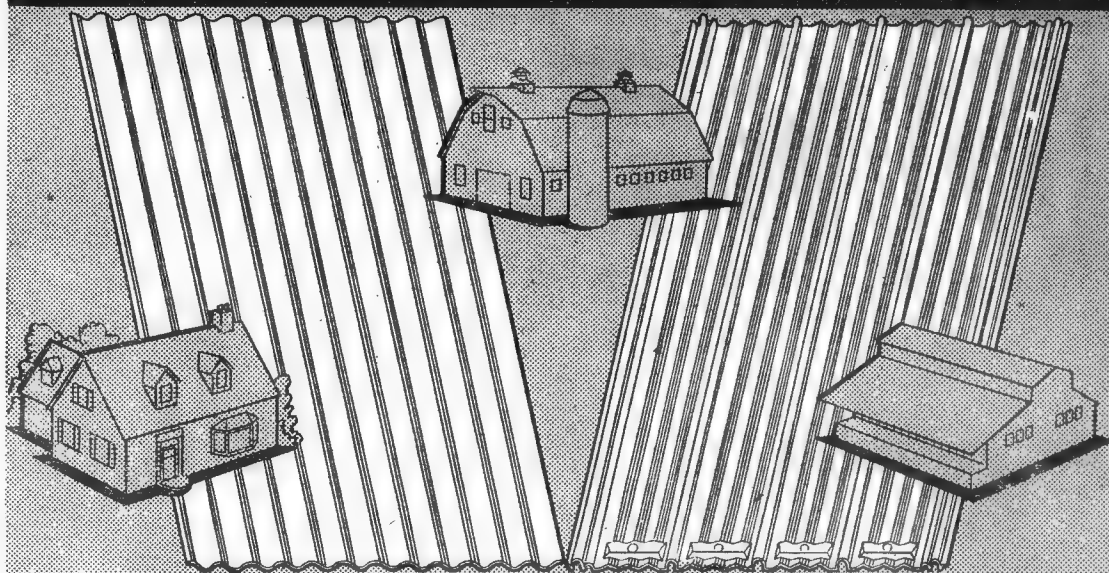
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Easy to apply—Light, Strong

Keep Summer Heat Out and Winter Heat In

No Upkeep Costs

Ask your local dealer for all the interesting particulars

Alfalfa, Clovers, Soya Beans

Increase Your Yield

Legume seeds should be inoculated with NITROBAK before planting — it may mean the difference between success and failure. Costs but a few cents per acre. NITROBAK — easy to use. Fast. No fuss — No bother. \$1.00 will treat 2 bushels clover seed; 6 bushels Soya Beans. Literature on request. See your local seed dealer or send \$1.00 for NITROBAK postpaid to you. Specify seeds you wish to inoculate. Be ready at planting time. Order NITROBAK NOW!

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"Old at 40, 50, 60?" — Man, You're Crazy

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Helpmeet.

In Springfield, Mass., Ralph Baughn's sentence for hacking at his wife with a carving knife was suspended when she explained to the judge: "He was only playing around like husbands do."

A Man's Philosophy

By ANNA E. WILSON

SNOW was a funny thing, especially snow like this; big, soft flakes that blotted out the landscape. In snow like this you were completely alone, so that, even in so brief a space as lay between your own house and that of Mark Ordway, you could relive a lifetime. Yes, even the lifetime of Mark Ordway.

He could remember him almost from the beginning, a hard-fisted orphan, slugging along with a sort of blunt honesty; not especially bright but with a funny little philosophy that he'd figured out for himself. Shut in by the snow, Sammy could see now in what a strange way a philosophy could shape a man's life.

As early as their first school days he'd admired Mark with a boy's admiration for someone able to take care of himself. When Mark dipped Libby Olman's curls in his inkwell, he'd imitated him by doing the same to Mimi's. It was then that he'd come up against a surprising thing. While Libby had only laughed at Mark and slapped his fingers, Mimi had cried and run away and hid in the cloakroom and had to be comforted by the teacher who sent Libby home with her.

It wasn't just because he'd been punished by Miss Talman, or because he'd been confused. Even then he'd liked Mimi. Liked her especially well that day because her hair was in curls instead of a pigtail. It was then he had come up against Mark's philosophy. He could see now that, even then, Mark had had a wonderful fund of human understanding. "It's the way you think, Sam," he'd said. "Libby, now, she was wearing an old dress but Mimi was wearing her new middy. Mimi's folks are terribly strict and Mimi was afraid to go home because it was ruined. The mistake most folks make is in thinking it's all right to do a thing because it looks right or because it's fun at the time or because someone else does it — but the way it seems to me, you got to look ahead to what comes after. It's what's going to come of it afterwards that matters."

Toward high school's end, he'd got to look down on Mark Ordway a little. He, Sam, skipped grades while Mark had to repeat the year. Mark'd helped Dick Turman with his milk round and when Mark quit before he graduated to take over Dick's round, he, Sam, had felt that Mark was already doomed to failure. Mark's explanation was, "After a year or two, Sam, I'll know what I need to learn and why — just a lot of general information that you can get from an encyclopedia anytime isn't much help."

It had been failure again when Mark got into an accident and got fired, although running the truck into a brick wall had saved the lives of two children.

Perhaps it was because of the children that Mark got his next job and Sammy couldn't see that it was any better than the first; helping out in a community centre; not doing anything special, just keeping it clean and giving out milk. Listening to him, he'd known right away that Mark hadn't changed much.

Billy Blaine was practising his marksmanship by potting bottles off a post when Ottilie Clyne came by with a wire tray of milk. Ottilie stuck a bottle of milk on the post and took a shot at it. Mark's voice was still patient when Ottilie argued about the broken bottle. "I'm not charging you for the bottle, Ottilie, but for the milk you wasted. That was Annie Clegg's milk and she's got a weak chest. You've got to learn to think better."

Right after that Mark quit the Community Centre. Some said Mark was more for explaining to the kids

why they did wrong than he was for punishing them. More than ever now, he could see Mark drifting from job to job and getting nowhere, so that he was surprised to learn that he had finished high school while at the Centre and had entered college. Even then, he was pretty sure Mark wouldn't go through with it. He'd his mind made up about Mark.

Mark had quit in his third year and when he'd heard he was acting as a guard at Maybend Prison, he'd looked him up and mentioned his unfinished college term. Mark had laughed. "You never stop worrying about me, Sam. After the third year, a man can branch out into almost anything."

After the riots at Maybend, he'd looked for Mark to quit or get fired. It was six months later that he ran into him, although he'd heard that he was acting as junior warden at Maybend. Mark had been walking in the snow alone, like this, and he'd taken him home for coffee. For the first time in his life, Mark had seemed uncertain. Questioned about it, he admitted that he had quit the prison but when he had mentioned a job at the bank to him, Mark had hardly noticed. He'd been too busy to look him up afterwards and the next he'd heard of him was from Bud Carloti. "He was wonderful. Seemed as if he could look right into your mind and tell you why you did things. It was the doctor who showed him he could do his job better. When we heard he was going, some of the fellows collected a fund and asked Mark to take it. Mark's now learning to be a doctor; the kind that helps folks straighten out their lives and minds." Bud's face softened, thinking of Mark. "Never was another like him."

Funny how snow shuts a man in; how soft and cold and wet it is. Mark'd scold a bit because he'd come out like this to see him in the storm. Said a bad case of concussion often left a man confused a bit, especially in bad weather. Yes, there it was. He could see it, bright and polished with the light that burned all the time so that folks who were troubled or sick or confused could find it even in the dark. Now he could read the big black letters on the shiny plate.

Dr. Mark Ordway.

□ □ □

Arthritis Committee Sets Objective

IN an effort to make Canadians fully aware of the ravages of Arthritis, the Arthritis Club of Banff has launched upon an extensive promotion and membership campaign.

The Banff Club is the only one of its kind in Alberta and was formed a few weeks after the Department of National Health and Welfare officially announced steps to formulate and develop a national campaign.

Alberta's campaign is an organized step in that direction. It is designed with a three-fold objective. At present the Banff Club is circulating 3,000 citizens — many of them Arthritics — with a colorful folder highlighting the tragic toll taken by Arthritis annually; reviewing the organizational aspects across Canada; listing the aims and objectives of the Canadian Arthritis and Rheumatism Society and the Arthritis Club of Banff and appealing for membership in the Banff organization.

□ □ □

To set your hair quickly, roll it up dry, then wet your hands and pat all over your head. The curls will dry in no time.



KDA

YOU CAN'T KID ME, MOM...



Sure, Crown Brand Corn Syrup is good for me. Sure, the doctor recommends Crown Brand Corn Syrup as part of my diet.

BUT—why tie it down to me?

How about the way you use Crown Brand for wonderful baking? For a sweetener? And why not mention how delicious it is with pancakes, cereals and hot waffles?

You can't kid me, mom. Crown Brand Corn Syrup is good for all of us!



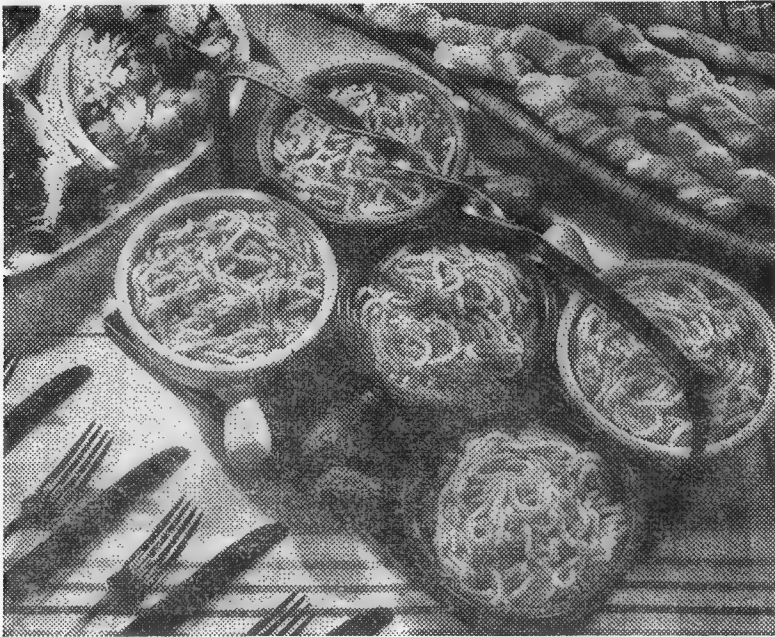
For years doctors have recommended the use of Crown Brand Corn Syrup as a satisfactory carbohydrate acting as a milk modifier for bottle-fed infants.

CROWN BRAND CORN SYRUP

Also Manufacturers of Canada Corn Starch

THE CANADA STARCH COMPANY LIMITED — MONTREAL — TORONTO

When You're In a Hurry



By LOUISE PRICE BELL

NEWs of new food is good news indeed. But when the news is a war-casualtied old favorite, finally returned to nation-wide marketability again, that's the best news ever. So it's cause for huzzahs that canned, ready-to-serve spaghetti is on grocers' shelves once more.

You remember the kind — succulent strands as gleaming and white as could be. Not too hard, and not too soft — every luscious ribbon positively dripping with a rich tomato sauce well flavored with some robust cheese.

What memories of good eating this recalls! Quick feasts you turned out in that minute-before-supper scramble after a late rubber of bridge . . . post baseball game spreads when your small fry corralled the crowd at your house . . . Sunday night minute-made meals when you took it easy while Father and the youngsters foraged for their food. Good meals these were, for all their swiftness — spaghetti's honest, forthright flavor, its fillability, its readiness for instant feasting made them so.

To revive these pleasant customs once again, try these:

Spaghetti and Egg Scramble

- 6 slices bacon
- 4 eggs
- 1 can cooked spaghetti in tomato sauce with cheese
- Salt and pepper

Fry bacon until crisp, remove from pan and break into small pieces. Beat eggs until light and fluffy, add spaghetti, then pour into skillet containing a small amount of the bacon fat. Cook, stirring gently until the consistency of scrambled eggs. Add the crisp bacon, then season with salt and pepper. Serve on toast. Whole bacon slices may be placed around the scrambled spaghetti rather than added, if desired.

Spaghetti Ring

- 6 strips bacon
- 2 cans cooked spaghetti in tomato sauce with cheese
- 4 eggs
- ½ teaspoon salt

Cook bacon until crisp. Crumble in small pieces, then add to spaghetti, eggs and salt, blending well. Pour into a well greased ring mold. Bake in a moderate oven (325 degrees F.) ¾ to 1 hour, or until firm. Fill center of ring with cooked buttered broccoli or green peas.

Spaghetti Meat Loaf

- 1 lb. ground round steak
- 1 egg
- 1 teaspoon salt
- ¾ teaspoon pepper
- 1 can cooked spaghetti in tomato sauce with cheese
- Grated sharp cheese

Combine all ingredients, except cheese, then mix thoroughly. Pour into greased loaf pan and bake in a moderate oven (375 degrees F.) 1 hour. Turn out onto platter and sprinkle immediately with grated sharp cheese.

Spaghetti and Lamb Patties

- 1 lb. ground lamb
- 1 teaspoon salt
- 1 can cooked spaghetti in tomato sauce with cheese

- 1 egg
- 12 strips of bacon

Combine lamb, salt, spaghetti and egg and mix well. Divide into twelve mounds, pat flat, and wrap each with strip of bacon (like lamb patties). Sprinkle both sides with flour. Place on rack in roasting pan. Bake, uncovered, in a moderate oven (375 degrees F.) 1 hour. If bacon needs additional cooking, place roasting pan with patties under broiler for a few minutes.

□ □ □

How To Buy Shoes For Child

HERE are a few suggestions on selecting shoes for homemakers with small children.

The child should wear no shoes until he is ready to walk. Then, select soft-soled, pliable shoes shaped like the natural outline of his feet. Stiff soles on many small shoes cause a great number of falls.

Select a shoe with a roomy toe — the moccasin type is good. Have the shoe 1 inch longer than the foot and ¼ inch wider. It's better to have it too long than too short. In case the heel rubs, you can pad the counter by gluing in fitted pieces of chamois skin.

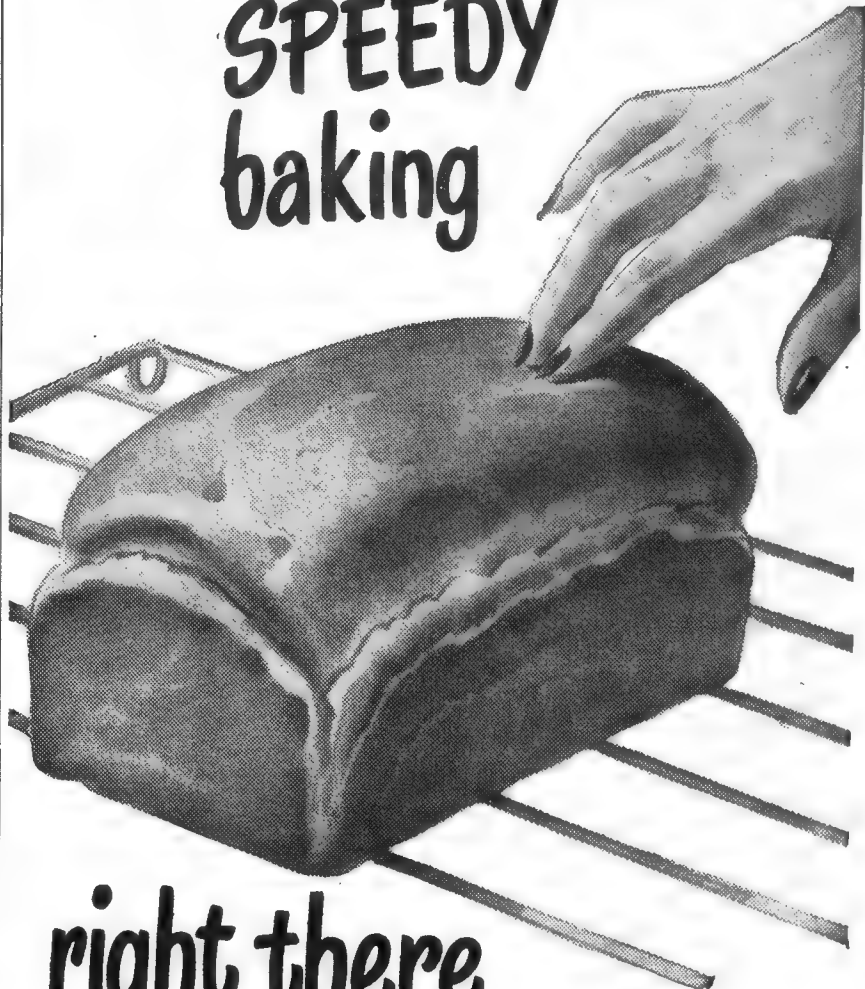
Avoid patent leather shoes. They prevent evaporation of moisture from the feet. To aid in obtaining proper fit, stand the child on a sheet of white paper, draw the outline of the foot, then buy the shoe nearest that outline in shape.

In warm weather, give your child an opportunity to use his bare feet in the sand.

Remember children's shoes should be bought for comfort and for proper foot development. Children's shoes should be plain, wide-toed, low heels, have a straight inside line, and, above all, be properly fitted. They should be pliable and bend with the feet.

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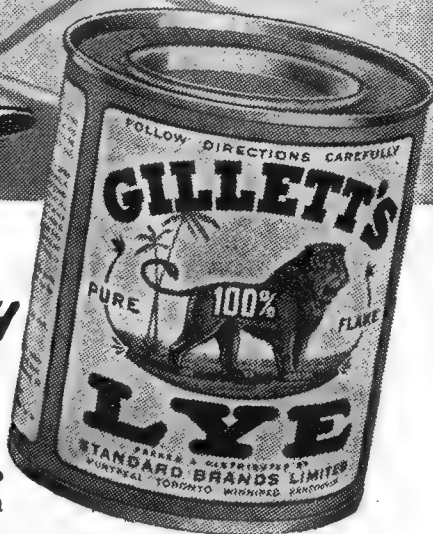


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*Never dissolve lye in hot water. The action of the lye itself heats the water.



How Do You Carry Your Head?



Take a tip from Screen Star Patricia White and gain an air of distinction by carrying your head high.

By HELEN FOLLETT

HOW do you carry your head, lady? Or don't you bother your head on that subject? Look at grand opera stars. Regard the lovelies of the ballet, and the movies. You'll see. They carry their heads in a grand and regal manner. It gives them poise and distinction. The pose of the head is as important as the pose of the body if you are seeking pulchritude laurels, if you would be lovely "all over" without a detail missing.

The head should follow the upright line of the spinal column. It should take the middle path, should not droop or be held back. So be level headed.

Challenging Appearance

You know the girl who sticks out her chin. She has a challenging, belligerent appearance. What's worse, she looks down her nose at her fellow beings, which is not a pretty habit, as everyone will agree. The thrown-back position makes for a bossy attitude. To let the head droop is to take on a

forlorn, discouraged, woeful mien. Never must you catch yourself doing that. You'll be put right out of this beauty class.

How a woman carries herself discloses her character, whether she is spirited or spiritless, whether she is meek or domineering. As we have said many times before, many qualities of beauty start in the mind.

Throw Head Forward

Center your head over your chest on a line with the middle of the pelvis. Throw your head forward, return to first position; send the head back as far as you can. Are these movements done easily? If not you are a bit muscle bound, possibly because you have not been carrying your head as you should. It is only when the head is in normal position that the muscles of the neck are free of strain.

Head balance means that you will carry your millinery in a jaunty manner, that your hairdo will look its tip-topping best.

Easy Way To Insure Body Cleanliness And Skin Beauty

A DAILY bath with baking soda is an easy and delightful way to be sure of complete body cleanliness and insure against body odors. Baking soda, which is bicarbonate of soda, removes all body odors by removing odor-giving secretions from the pores. Baking soda is itself odorless. It simply goes to work in its own safe, effective way, doing a thorough job as a body deodorant.

It is so simple and pleasant to prove the value of a baking soda bath, which not only makes you feel clean as a whistle, but also calms tired, jittery nerves, pep you up, gives you new energy.

A baking soda bath is so easy on your pocketbook, so easy to prepare. Everyone has a box of baking soda in the kitchen or pantry. Just fill a bathtub with water comfortably warm, add about a quarter-pound of baking soda, then get into the tub and relax. Stay there a while, take it easy, let the soda go to work. It's soothing also to dip a washcloth in the soda solution, close the eyes, and place the washcloth over them. Now the idea is to lie perfectly still and actually feel all those tired, tense muscles loosen up. No need to worry about scrubbing and rubbing, the soda gently soaks out the secretions in the skin and does its deodorizing work. After the bath, a brisk rub-down with a big, fluffy towel gives an added freshening and stimulation.

A baking soda bath is a beauty bath, even though it costs only a few cents.

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AUNT SAL SUGGESTS

Oh tell me dear neighbor, how do you get through, All of your housework so soon? ... Oh I use handy hints for every task,

And my work slips along like a tune. A WOMAN'S work is made up of a mass of detail. Isn't it the truth and we might as well reconcile ourselves to the truth of that statement. But let's take extra care that we don't turn that "mass of detail" into "a mess of detail". Very easily done I've found out to my sorrow.

Haven't you heard married women say with such an apologetic air, "Oh, I'm only a housekeeper." Where do they get that "only" stuff is beyond me.

Have you had a birthday at your house lately? One should never get too old to make a little fuss over these annual events. If you've reached the stage when you'd just as soon omit the exact number of candles from the cake, well and good ... but don't omit the cake.

I tried out a new recipe on my daughter's birthday this year. But sad to relate I also came down with a loathsome attack of Flu that day, so the cake didn't come up to my expectations. But I tried it again after the Flu had flown (a low-brow pun) and it really turned out fine, so I'm ready to share the recipe with you. Only heed this warning, don't try it if you're comin' down with some misery! ... It is called "One Bowl Gold Cake." And here's how. Sift together into bowl 2 cups sifted cake flour, 3 tsps. baking powder, 1 tsp.

salt and 1½ cups white sugar. Then work in 1/3 cups vegetable shortening and 2/3 cup milk, ½ tsp. lemon extract and ½ tsp. vanilla. Beat 2 minutes hard. Add 3 large or 4 small egg yolks and 1/3 more cup milk. Beat 2 minutes more. Pour the batter into two large or three small layer cake pans. Bake in moderate oven for 30 minutes (or until done. Good advice.)

Now, between the layers of this "yaller" cake and generously covering the whole thing I placed oodles of 7-minute icing made with the egg whites and brown sugar, instead of the customary white. It gives it a different touch that is a welcome change off from the white.

And have you tried popping the iced cake into the oven to form a protective crust on the outside? I learned this trick years back from a friend who was a whiz at frostings. She was at my home one day when my icing was staging a stubborn spell and just refused to stiffen. "Pop it in the oven for a few stinky minutes," advised my clever friend. All boiled icings can be treated this way, and it really improves them ... makes the outside crispy and the inside "gooey" ... if you get what I mean. Now I try to stop beating my icings just before they enter that last firm stage, so I can let my oven do the last finishing touch.

Of course when we resort to icings made of powdered or confectioner's sugar we can not expose them to heat. From a lady who knows I got these ingredients for a really nice icing made with "icing sugar": One pound sugar, 2 egg whites, 2 tbsps. water, 1 tsp. vanilla and a dash of salt. This was named EASTER FROSTING ... but Easter sneaked into our calendars so early this year that it seems to me we should be celebrating it again in May.

It's quite a leap from frostings to canned vegetables but follow me, I'll promise not to push you into the water. And speaking of water, that's what some have against canned vegetables ... too much water and the

problem arises what to do with it. Our consciences just won't stop reminding us that the concentration of vitamin C is slightly higher in the juice of vegetables than in the solid portion so down the drain it must not go ... but down the throats of our family it must!

Commercially canned vegetable juices have been given quite a vigorous ballyhoo recently. Most families have been converted to the drinking of tomato juice, so it behooves mother to persuade her offspring to down some other varieties ... peas and carrot juice isn't half bad, especially if chilled and pepped up with salt and pepper. Of course those of you lucky women who have a freezing compartment in your frig. can turn these juices into icy gobs that slip down easily. And how about beets? Did you can quite a number and are you always dismayed at the abundance of ruddy juice on them? ... Here's an idea I've tried and liked. Add gelatine powder to this red juice and presto you have red jelly that is both peppy and refreshing with cold meats or a combination salad ...

Have you ever tried it, gals? Well do so and see if you don't agree that it is just different enough to be nice. By bye for now ... and every good wish!

□ □ □

It is wise to keep baking soda near cooking stoves for an important reason — it is endorsed by Fire Underwriters for its effectiveness in extinguishing burning grease or oil in pans. Water thrown on a flame spreads it, but a handful of baking soda smothers the pan fire and puts it out immediately.

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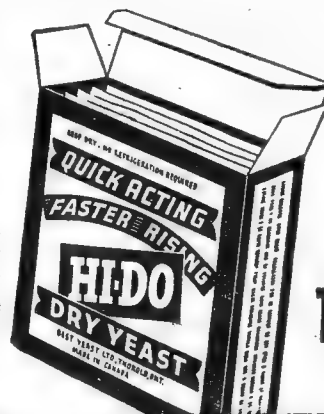
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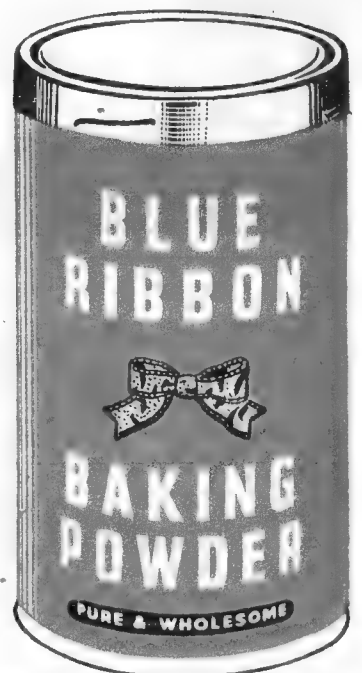
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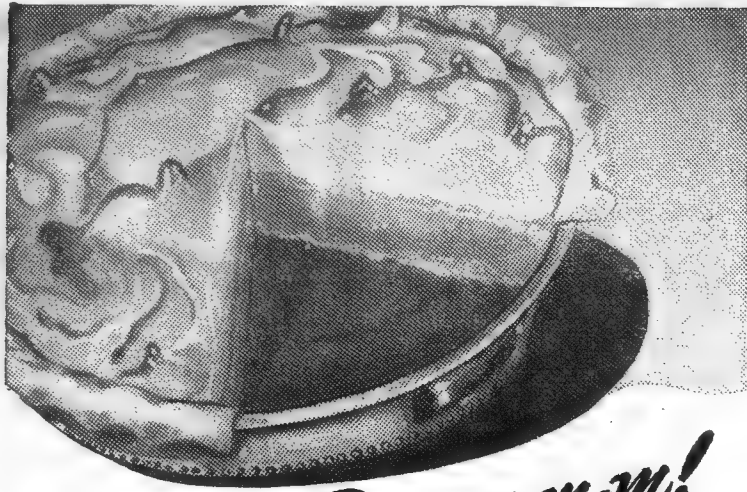
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Country Diary

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COLOR is coming back to the prairie: gay mauve and yellow blossoms in the new, clean grass, fresh tints of leafage, bright active birds are all adding interest to the countryman's life and transforming the wintry earth to beauty after its over-long austerity.

As regards the weather, man's memory is short. One lovely May morning and all the wrack of a long severe winter is forgotten. We find the "sweet o' the year" sweeter than ever. Each spring it seems more so. But one day of chilly wind and night of frost-nip, and "even now it is not Spring" is heard. One May-day I saw my husky neighbor riding the drill enwrapped in a shaggy fur coat. And even in early June I have known a frost that shrivelled the young beans to black rags.

But the wise birds are undeterred by calendar dates. Their memories are sure, and they have watched winter's show passing and the hesitating advance of spring. Now they sing their joyous melodies in praise of the unfailing abundance of their good Mother Earth.

The robin's breast reddens deeply, the Franklin gull warms his rosy throat, the finch polishes his golden wings, and those birds who are too indifferent to dress up in celebration of their home-coming are content to develop a glistening sheen on their plain plumage. Perhaps they scorn the ostentation of bright color — "fine feathers make fine birds" forsooth! What the sombre blackbird and song sparrow lack in gay feathering they make up for in the sweetness of their warblings.

How lovely is the May rain! It is unlike any other rain in the year's long calendar. Soft, gentle, noiseless, it descends. Its touch on the outstretched hand and uplifted face is like a greeting, a kiss of benediction. It evokes scents which have lain dormant for many months, and brings

forth the bright colors we have missed for so long. After such a refreshing rain the birds are at their happiest and revel in the comfort it brings. Then they find a host of things to chatter about. Here is a new green leafy bough, there is a fat grub washed from its hiding-place. They call to one another, sharing the plenty that has come in place of lean and bitter winter fare.

The monosyllabic wren is again heard with its terse comment on life and man and cats that prowl by night. The crows with coats ashine and reglossed, show off with their mimicry, barking like dogs of the town. Early farm risers will listen (I shall be spell-bound as always) to the symphonies of meadow-lark and blackbird. And at twilight the minstrels will pour out their love in notes of unearthly charm such as Ulysses might have understood.

We have not yet seen the prime of May — just the preview put on by the birds in Nature's setting. Soon now the thin green spears covering the brown fields will deepen and thicken in color and richness toward fulfilment.

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Dainty Dressing Stool

If you have an old piano stool, why not transform it into a very pretty and useful dressing stool for your bedroom? Get your husband to saw off part of the legs first, then get a small tin of Japanese lacquer and paint them to go with your colour scheme. Now tack a piece of damask or casement cloth over the stool with brass upholstery tacks. I am sure you will be pleased with the result.

The Dishpan Philosopher

I GET to thinking now and then I'd like to live my life again. Of course I'd want to take along the things I've learned of right and wrong, for starting out again from scratch as like as not I'd mix a batch of these mistakes that I deplore, as here I sit and count the score. It's funny how the habit clings of struggling to possess mere things, and how the needless chores we do eat up our leisure all life through. I never stopped to figure out exactly what life's all about, but somehow if I could go back I think I'd try another track.

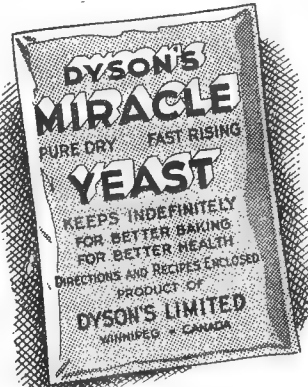
Yes, sir! I see it plain as day — I've grabbed at shadows all the way, and let life's substance drift on by. But if I had another try would I do better? Or as well? — That's one thing time will never tell.

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**SPICY LAMB RIBLETS**

- 2 lbs. lamb riblets, front or flank, cut in 2" pieces
- 2 tablespoons fat
- 2 tablespoons sugar
- 3 tablespoons thick spicy meat sauce
- 2 teaspoons vinegar
- 2 tablespoons prepared horse-radish
- 2 cups boiling water
- $\frac{1}{2}$ teaspoon salt
- $\frac{1}{4}$ teaspoon pepper

Brown meat well on all sides. Drain off excess fat. Add remaining ingredients, cover and simmer until meat is tender, about 1 hour. Add additional water, if necessary, during cooking to keep quantity of sauce up to 1 cup. Six servings.

VEAL STEAK

- 1½ pounds veal steak, $\frac{1}{2}$ inch thick
- 2 tablespoons flour
- 1 teaspoon salt
- Dash of pepper
- 1½ cups sliced onion
- 3 tablespoons fat
- $\frac{1}{2}$ cup chili sauce
- 1½ cups boiling water
- $\frac{1}{2}$ cup grated cheese

Cut steak into 6 pieces. Dredge with flour, seasoned with salt and pepper. Brown veal and onions in hot fat. Add chili sauce, boiling water and grated cheese. Bring to boiling point, cover and simmer slowly until meat is tender, about 1 hour. Six servings.

POTATO DUMPLINGS

- 2 tablespoons fat
- $\frac{1}{2}$ cup small bread cubes
- 2 cups hot riced potatoes
- 2 eggs, beaten
- 1 teaspoon salt
- 1 tablespoon finely chopped onion
- 1 tablespoon chopped parsley
- $\frac{1}{2}$ cup sifted pastry flour
- $\frac{1}{2}$ teaspoon baking powder
- 2 cups canned tomatoes or tomato juice

Melt fat in frying pan, add bread cubes and brown, stirring frequently. To the riced potatoes add the beaten eggs, salt, onion, parsley and toasted bread cubes. Sift together the flour and baking powder and add to potato mixture. Blend well. Drop by spoonfuls in boiling tomato juice or tomatoes. Cover tightly and steam 25 minutes. Serve immediately. Six servings.

SPRINGTIME SUPPER SALAD

- 1 cup cooked meat, diced
- 1 cup cooked potatoes, diced
- 1 cup cooked beets, diced (if canned, drain well)
- $\frac{1}{2}$ cup sliced radishes
- 1 teaspoon celery seed
- $\frac{1}{4}$ cup chopped onions
- $\frac{1}{2}$ teaspoon salt
- $\frac{1}{4}$ teaspoon pepper
- 2 hard-cooked eggs, coarsely chopped
- $\frac{2}{3}$ cup cooked salad dressing

Combine all ingredients except 1 hard-cooked egg, which is to be sliced and used as a garnish. Add salad dressing last and toss ingredients lightly together. Chill thoroughly and serve on crisp lettuce. Six servings.

MOULDED EGG SALAD

- 1 tablespoon gelatine
- $\frac{1}{4}$ cup cold water
- 1½ cups boiling water
- 2 tablespoons vinegar
- 1 teaspoon salt
- 4 hard-cooked eggs, sliced
- 1 tablespoon chopped parsley
- 3 tablespoons chopped pickle
- 1 tablespoon grated onion
- 1 tablespoon chopped pimento

Soak the gelatine in the cold water. Add boiling water, vinegar and salt. When the gelatine mixture begins to stiffen, add the remaining ingredients.

Pour into wet moulds and chill until firm. Turn out to serve. Six servings.

POTATO BISCUITS

- 2 cups hot riced potatoes
- 2 tablespoons grated cheese
- 1 teaspoon chopped parsley
- 2 eggs, well beaten
- 1 cup sifted all-purpose flour or 1 cup plus 2 tablespoons sifted pastry flour
- 2 teaspoons baking powder
- 1 teaspoon salt

To the potatoes add the grated cheese, chopped parsley and the well-beaten eggs. Sift together the flour, baking powder and salt. Blend thoroughly with first mixture. Shape into rounds like a biscuit and bake in a very hot oven, 425 degrees F., for 15 to 20 minutes. These biscuits are good served with jam or jelly and require no butter. Yield: 18 2-inch biscuits.

CHEESE MUFFINS

- 2 cups pastry or $1\frac{3}{4}$ cups all-purpose flour
- 3 teaspoons baking powder
- $\frac{1}{2}$ teaspoon salt
- $\frac{2}{3}$ cup grated cheese
- Dash of paprika
- 1 egg
- 1 cup milk
- 2 tablespoons shortening, melted

Mix and sift flour, baking powder and salt. Add cheese and paprika. Beat egg, and add milk. Make a depression in the flour mixture, pour in the egg and milk mixture. Then melted shortening. Stir as little as possible in mixing. Fill greased muffin tins two-thirds full. Sprinkle with additional grated cheese. Bake in a hot oven, 400 degrees F., 20 to 25 minutes. Makes 1 dozen medium-sized muffins.

DREAMLAND CAKE

- 1 cup all-purpose flour
- $\frac{1}{8}$ tsp. salt
- $\frac{1}{2}$ cup butter

Mix ingredients together with a pastry blender until consistency of fine meal. Press into shallow pan (7" x 11").

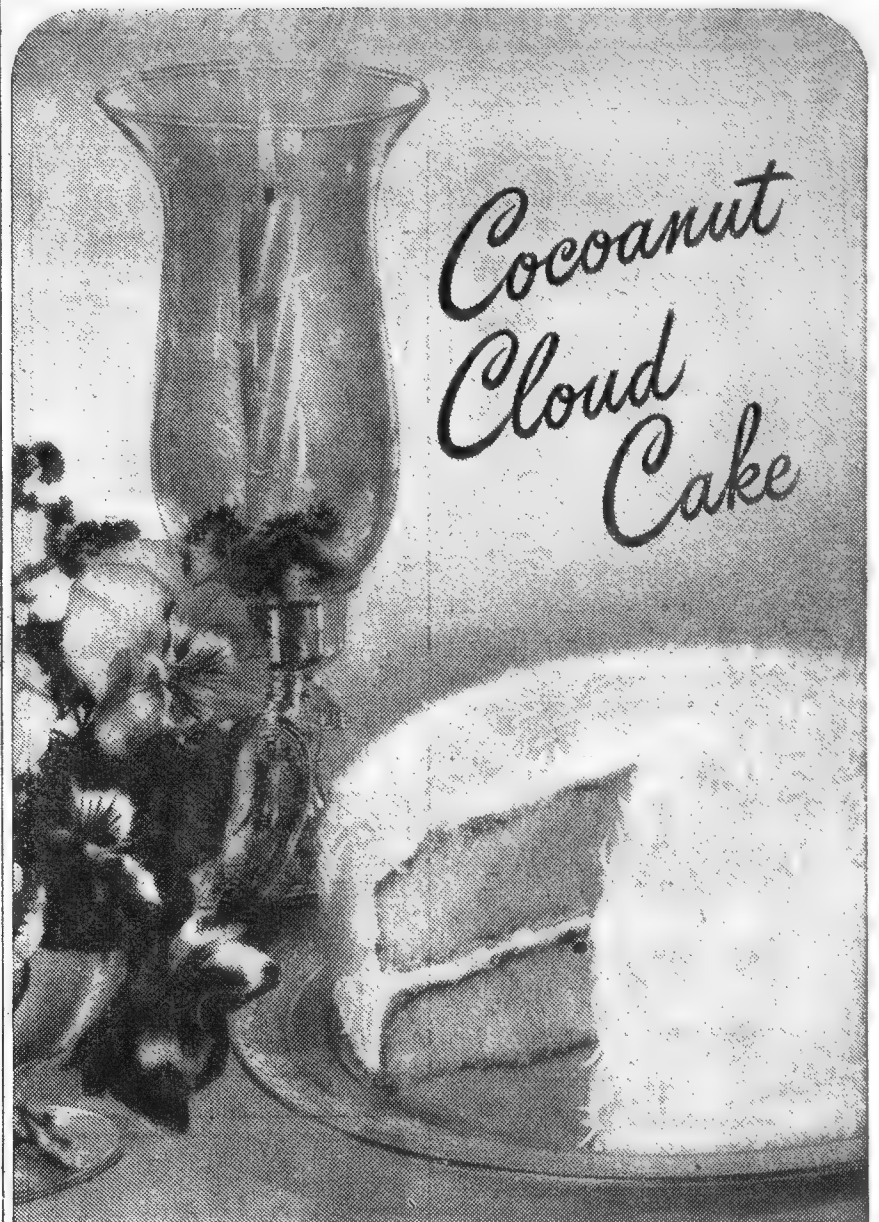
- 2 eggs
- 1 cup brown sugar
- 3 tbsps. all-purpose flour
- 1 tsp. baking powder
- 1 cup chopped walnuts
- $\frac{1}{2}$ cup shredded cocoanut
- $\frac{1}{2}$ cup chopped dates
- $\frac{1}{4}$ tsp. vanilla

Beat eggs lightly and fold in sugar, flour and baking powder which have been sifted together. Fold in nuts, cocoanut and dates, and lastly the vanilla. Spread over first mixture. Bake at 325 degrees F. for 40 minutes. Cut while warm and allow to cool in pan. Yield: 2½ dozen squares.

COCOANUT TEA STRIPS

- 2 cups cake flour
- 2 tps. baking powder
- 1 tbs. grated orange rind
- 4 tbsps. butter or shortening
- $\frac{2}{3}$ cup sugar
- $\frac{1}{2}$ tsp. salt
- 1 egg, unbeaten
- $\frac{1}{4}$ cup milk
- $\frac{1}{2}$ cup orange juice
- 4 tbsps. sugar
- 2 egg whites, stiffly beaten
- $\frac{1}{2}$ cup cocoanut (more if desired)

Sift flour once, measure, add baking powder and sift together. Add orange rind to butter and cream thoroughly. Add sugar gradually and cream well. Add egg and beat until light and fluffy. Add flour alternately with milk and orange juice, a small amount at a time. Beat after each addition until smooth. Pour into 2 greased 8" x 8" pans. Cover with a thin layer of meringue made by beating sugar into egg white. Sprinkle with cocoanut. Bake at 350 degrees F. for 25 minutes. Cool. Cut into strips.

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COCOANUT CLOUD CAKE

- $\frac{3}{4}$ cup shortening
- 1½ cups sugar
- 3 eggs
- 3 cups sifted cake flour

- 4½ tps. Magic Baking Powder
- $\frac{3}{4}$ tsp. salt
- 1 cup milk

- $\frac{1}{2}$ tsp. almond extract
- 1 tsp. vanilla extract
- Boiled Frosting
- Cocoanut

• Cream together shortening and sugar. Add eggs, 1 at a time, beating after each. Sift together flour, baking powder and salt; add alternately with milk to creamed mixture. Add vanilla and almond extracts. Pour into 2 greased 9" layer pans. Bake in moderately hot oven, 375° F., 25 minutes. Cool 5 minutes. Remove layers from pans; cool on wire rack. Spread frosting between layers and on top and sides of cake. Sprinkle generously with cocoanut.

Boiled Frosting: Boil together 1 cup sugar, $\frac{1}{2}$ cup water, and 1 tsp. vinegar to 238° F. (or until syrup spins long thread when dropped from tip of spoon). Beat 2 egg whites stiff; gradually add syrup, beating constantly until frosting holds shape. Add $\frac{3}{4}$ tsp. vanilla extract.



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all R.O.P.	W.L. Chks.	3.00	2.00	1.00
Sired	B. Rocks	18.00	9.50	4.75
	B.R. Pull.	30.00	15.50	7.75
	B.R. Chks.	10.00	5.50	3.00
	R.I. Reds	18.00	9.50	4.75

Hambley Approved			Special Matings		
16.00	8.50	4.25	N. Hamps.	18.00	9.50 4.75
28.00	14.50	7.25	N. H. Pull.	30.00	15.50 7.75
9.00	5.00	3.00	N. H. Chks.	10.00	5.50 3.00
16.25	8.60	4.55	W. Rocks	18.00	9.50 4.75
29.00	15.00	7.75	W.R. Pull.	30.00	15.50 7.75
16.00	8.50	4.50	Cross Bred	17.00	9.00 4.50
29.00	14.75	7.75	C. B. Pull.	30.00	15.50 7.75

Gtd. 100% live arr. Pullets 96% acc.
10730 - 101 Street, Edmonton, Alta.
605 - 1st Street E., Calgary, Alta.

Hambley Hatcheries

BABY CHICKS

PRINGLE BABY CHICKS



Your Guarantee of
**QUALITY, SELECTED
BREEDING**

Earlier in the season some Poultrymen and Farmers delayed ordering their chicks—and, Now, orders for May and June PRINGLE Chicks are being received in record numbers. We strongly advise sending your order immediately to avoid possible disappointment in securing your desired delivery date.

ALBERTA 1948 PRICES TO END OF SEASON

	100	50	25
White Leghorns	\$16.00	\$8.50	\$4.25
W. Leghorn Pullets	32.00	16.50	8.25
Hamps., Rocks, Reds	18.00	9.50	4.75
Hamps., Rocks and Red Pullets	30.00	15.50	7.75
Hampshires	\$16.00	\$8.50	\$4.25
Hamp. Pullets	28.00	14.50	7.25
Leg.-Hamp. Crossbreds	16.00	8.50	4.25
Leg.-Hamp. Cross Pullets	30.00	15.50	7.75

96% accuracy guaranteed on pullets.

FOR B.C. PRICES WRITE OUR CHILLIWACK HATCHERY

PRINGLE Broad-Breasted Bronze and Beltsville White TURKEY POULTS available for May and June delivery. Order Now, \$90.00 per 100.

OIL BROODERS—For immediate delivery.
"SILENT SIOUX" — \$25.70
"BUCKEYE" — 23.70
Order Pringle Chicks Now from above Prices.

PRINGLE ELECTRIC HATCHERIES

Calgary — Edmonton — Chilliwack, B.C.

STEWART'S R.O.P. Sired CHICKS AN INVESTMENT FOR MORE PROFITS

R.O.P. Sired Chicks are the highest Government grade produced in commercial quantities. Stewart chicks are 100% R.O.P. sired. They are produced from some of the finest Pullorum-tested flocks from Alberta and B.C., headed by R.O.P. males from trap-nested hens with records from 200 to 300 eggs per year. Chicks that LIVE—GROW—LAY and PAY.

96% ACCURACY GUARANTEED ON PULLETS

	Not Sexed.		Pullets.	
R.O.P. Sired	100	50	100	50
White Leghorns	\$16.00	\$8.50	\$32.00	\$16.50
Barred Rocks	18.00	9.50	30.00	15.50
New Hamps.	18.00	9.50	30.00	15.50
R. I. Reds	18.00	9.50	30.00	15.50
Wh. Ply. Rocks	18.00	9.50	30.00	15.50
W. Leghorn Cockerels, per 100				\$3.00
B. Rock, New Hamp., R.I. Red & White Rock Cockerels, per 100				\$9.00

Brooders for Immediate Delivery.
BUCKEYE OIL BROODERS — \$23.75
MONARCH COAL BROODERS — \$18.25

ORDER EARLY

Make sure you get the chicks you want when you want them. Play safe and book your order now for May delivery or any preferred date to June 10th. Order direct from this advertisement. Write today for large illustrated catalogue and prices.

STEWART ELECTRIC HATCHERIES

602B - 12th Avenue W., CALGARY, Alta.

BEFORE YOU BUY BABY CHICKS this year, give a little serious thought to the question of where to buy your baby chicks. Buying on price alone can very often prove a serious and costly mistake. The price tag on the chicks has no connection with your future success and profit in the poultry business. It's the chicks themselves that count and the breeding back of them that you are buying. Top Notch has been supplying good Government Approved chicks for 14 years. Prompt shipment on all popular breeds, also older pullets eight weeks to laying. Free catalogue. Top Notch Chick Sales, Guelph, Ontario.

BABY CHICKS

YOU'LL BE SORRY THIS FALL and Winter if you haven't your laying pen filled as usual and your usual number of cockerels. There's likely to be a shortage of eggs and poultry this Fall which means high prices. With prospects for a good crop, with lower feed prices, 1948 (not 1949) is the year to buy all the chicks you can properly handle. When your neighbors are cashing in on these good prices, don't you be the one wishing you had eggs and poultry to sell. The time to make money in any endeavour is when there are not too many going into the business. With 50% less chicks hatched to date, definitely this is the year "to cash in" in the poultry business. We can give prompt delivery on all popular breeds. Also older pullets eight weeks to laying. Be sure to send for our 1948 catalogue. Tweddle Chick Hatcheries Limited, Fergus, Ontario.

When you think of CHICKS

think of ...

Early's

ORDER MAY CHICKS NOW!

- Market poultry outlook best in years.
- Increased egg prices will increase your 1948 poultry profits.
- Over a half-million "Early" chicks now booked for delivery this spring.
- Orders for "Early's" May chicks pouring in daily.

"EARLY'S" R.O.P. Sired CHICKS

	Unsexed		Pullets	
In lots of—	100	50	100	50
W. Leghorns	\$15.75	\$8.35	\$32.00	\$16.50
B. Rocks	16.75	8.85	30.00	15.50

"EARLY'S" APPROVED CHICKS

L. Sussex	18.50	9.75	31.00	16.00
N. Hamps	15.25	8.10	27.00	14.00

"EARLY'S" COCKEREL CHICKS

Heavy Breeds	100	—	110	50	—	\$5.50
W. Leghorns	100	—	33	50	—	\$2.00

- "EARLY'S" guarantee 100% LIVE ARRIVAL at your station on all orders, and 96% accuracy on pullet chick orders.
- A deposit of \$2.00 per 100 chicks will book your order. Order direct from this ad. or write for free catalogue.

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Early Hatcheries

SASKATOON — MELFORT

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MAMMOTH PEKIN DUCKS — Extra choice stock. Hatching eggs, \$2.00 setting. Delivered free. Avoid disappointment. Order early. Henry Young, Millet, Alta.

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ENGLISH FARMER returning Alberta this summer, grown-up family, desires to buy, rent or share interest in about 1,000 acres deeded land with several thousand of lease grazing, ample water. Give full particulars by air mail. Lever, Houghton Park, Ampt-hill, Beds., England.

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BUY NOW while stocks are available: Bodie Airway Cleaners, Double 40 Deluxe special, \$450.00, Single 40, \$280.00; Single 30, \$180.00; come complete with three sets of screens and 8 foot elevator. Fanning mill for hand use, \$90.00; for power, \$36.00, each complete with 3 sets of screens. Loaders for truck, 12 to 18 feet, \$125.00 to \$188.50. Best makes on hand. Grain elevators to load in granaries or lofts, 16 feet, \$80.50; 20 feet, \$89.50. Fairbanks-Morse water-cooled engine, 2, 3 and 6 - 7 h.p. Air-cooled engines in Johnson's Busy Bee and Wisconsin of 1.34 to 8 h.p. Mink wire in chain link, electric weld and British woven, ½ to 1 inch mesh; also fox, Stucco wire 1 and ½ in. mesh in light and heavy weights. Coleman Oil Heaters — Ordinary cistern and force pumps from \$5.50 to \$10.50. Piping supplied. Also iron and wood well pumps, pipe and fittings. All above, f.o.b. shipping point. We also offer prepaid to destination, Remington-Rand, Deluxe Portable Typewriters, \$79.75, also Whizzer Motors for \$170.00, complete units \$230.00, \$260.00 and \$280.00. Write, phone or Wire S. Chipperfield Sales Agency, Hubbard, Sask.

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WANTED

WANTED — Palomino mare not over 1,000 lbs. in weight. Give full details to G. Nyholt, N. Battleford, Sask.

LIVESTOCK

WANTED — Pinto in Shetland or small pony mare either colt or grown. Give age, color, size and price in last letter. Box 40, Farm and Ranch Review, Limited, Calgary, Alta.

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THE IDEAL DUAL-PURPOSE CATTLE — Economical to feed — Milk, Butter and Beef Always — All Red — All Hornless — All Business. For further free particulars apply, Canadian Red Poll Association, Anaheim, Sask.

SASKATOON FEEDER SHOW AND SALE, September 30, October 1. Generous prizes, top market. Enter your feeder steers and calves before September 27. Prize lists from A. E. Newton, Union Stockyards, Saskatoon.

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BRAND NEW WAR SURPLUS aircraft generators, 29 volt, 100 amp., 3000 watt. Good for light plants, welding generators and many other jobs. Priced for quick sale at less than 10% of value, \$25.00 F.O.B. Hamilton. Newton & Campbell Co., Hamilton, Ontario.

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With Arthritic or Rheumatic pains, Stomach Ailments, Kidneys, Nerves, Piles, Colitis, Eczema, Female Ailments, Weakness, Run-down, etc., we will gladly refer to responsible men and women who have proven the merit of Lang's Mineral Remedy to their satisfaction. Write us for free information, we don't ask you to buy anything. Lang's Mineral Remedies, 946 Robson Street, Vancouver, B.C.

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GET RID OF THAT ITCH — Eczema, Leg Sores. Bettez' Ointment, large box, \$1. Guaranteed. Bettez' Agencies, Gravelbourg, Sask.

ELIMINATE THE POISONS from your body. By keeping the kidney and bowel action regular. Elik's Tea No. 4, a selection of herbal ingredients, arouses the action of the kidneys, the liver, and the bowels and promptly eliminates the poisons from the system. Pains, aches and fatigue disappear and serious disease is prevented. Price \$1.00 and \$2.00. Get it from your local druggist. If not obtainable order from: Elik's Medicine Co., Dept. 6, 222 - 20th St., W., Saskatoon, Sask.

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Write today for details, British Appliance recommended by Doctors. Free Trial Offer. So comfortable you will not know you have it on. Holds the hernia firmly. In many cases the ruptured tissues reunite and rupture conquered forever. Beasley's, Dept. CL57, 60 Front St. West, Toronto.

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MISCELLANEOUS

SPLIT CEDAR POSTS. Apply A. A. Monroe, Lumber Co., McBride, B. C.

SHOES RESOLED — 9 cents a pair. Hardens over night. Wears like iron. Legate, St. Charles 24, Man.

TARPAULINS — \$4.95 each, postpaid — War surplus, waterproof, complete with ropes, measures 6 ft. x 6 ft. square. Money-back guarantee. Sherman's, 1275 Queen St. West, Toronto, Ont.

WOOL GROWERS AND SIWASH KNITTERS — We have all the Siwash wool you want at \$1.75. Only white and grey. We specialize in custom work, spinning yarn at 40c lb.; carding wool into 72" x 90" batts at 25c lb.; knitting socks, etc. Write for folder describing conversion of your material and wool into warm, beautiful, lifetime comforters. Custom Woolen Mills, Sifton, 2, Man.

MALE OR FEMALE young in animals and man as you choose. Proven formula. Circular free. A. B. Field, Rte. 1, Box 765, Santa Clara, Calif.

AUTO OWNERS — Save \$\$\$ every year servicing your own car at home. Write Legate, St. Charles 24, Man.

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HOME-SPUN YARN, very warm, extra long wearing, grey, white, brown, heather, scarlet, royal blue, paddy green, black, 3-ply, \$1.98 lb., 10 lbs. or over \$1.80 lb. delivered. Mary Maxim, Sifton, Man.

WANTED — Common weeds by steady cash buyers. Write Legate, St. Charles 24, Man.

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MISCELLANEOUS

CHENILLE BEDSPREADS, \$4.99 each — Real value at wholesale price. Beautiful chenilles for double and single beds in all pastel colors, \$4.99 each. Closely tufted, full 90 x 100, basket design chenille spreads, \$7.98 each. Also Habitant and hooked rugs 18" x 36", 3 for \$4.00. These articles are worth double the price. Sent C.O.D. plus postage. Money immediately refunded if not satisfied. Handicraft Distributors, 254 Sherbrooke St., West, Montreal, Que.

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STRONG FOLDING CHAIRS — Hardwood — Natural finish — fold flat — excellent for churches — halls — theatres — school auditoriums — trailers. Satisfaction or money refunded. \$3.50 f.o.b. Sifton. SIFTON PRODUCTS, Box 102, Sifton, Man.

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NEWMAN (Thornless), CHIEF, SUNLIGHT raspberry plants, \$2.00 per hundred. Saskatoon, Highbush cranberry, Hazel nuts, Hansen's bush cherry, 10 for \$1.00. McDonald Rhubarb divided roots, 3 for \$1.00. Spirea van Houttei, 50c each. Prepaid. T. H. Kelsey, Gunn, Alta.

SEND 25c for the following leaflets: "How to Grow Gallons of Strawberries in a Barrel"; "A Faster and More Productive Method of Growing Tomatoes." Clara Kelsey, Ferintosh, Alta.

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Positive relief and comfort. Advanced method. No elastic, no understrap, no steel. Write Smith Manufacturing Co., Dept. M, Preston, Ontario.

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TESTRONES FOR MEN, OVERONES for women, special Hormones created and manufactured in the Laboratories of the British Glandular Products Ltd., of London, Eng. Confidentially, they are the finest regenerative medium for the disabilities of middle and old age. Unobtainable during the war, they can now be purchased in Canada. They are not a stimulant, but a quick restorer of youthful vigor and elasticity. Single bottles, \$3.50. Full course, three bottles, \$10.00. No C.O.D.'s. All orders to Glandular Health Products, 81 Union Building, Calgary, Alta.

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ATTENTION, HUNTERS AND TRAPPERS — Karoway & Carlsen, Manufacturing Furriers, will pay the best prices for raw furs. Write 219 Columbia Street, New Westminster, B.C.

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POEMS WANTED FOR MUSICAL SETTING. Send poems for free examination. FIVE STAR MUSIC MASTERS, 545 Beacon Bldg., Boston, Mas.

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DON'T FEED FILTHY SPARROWS — Scientific trap cleans them out. Simple, easy to build plans. Free details. Satisfaction guaranteed. For information write: Farmers Supply Co., 506, Carman, Man.

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Phone M 7044

TWO

Western Canadian NATIONAL BARLEY CONTESTS for 1948

2

BIG CASH PRIZE LISTS

**ONE
for
FARMERS**

For entries of carload of commercial grain from farmers in Western Canada's Malting Barley Areas.

FARMER'S COMPETITION PRIZE LIST

9 REGIONAL CONTESTS
3 regions in each province—
Manitoba, Saskatchewan,
and Alberta (including Peace
River Block).

First Prize \$100
Second, \$80; Third, \$70
Fourth, \$60; Fifth, \$50

**3 PROVINCIAL
CONTESTS**
First Prize \$400
Second, \$300; Third, \$200

**INTERPROVINCIAL
CONTEST**
First Prize \$1000
Second, \$500

**ONE
for
SEED
GROWERS**

For entries of 500 bushels of Registered or Certified Seed from seed growers in Western Canada's Malting Barley Areas.

SEED GROWER'S COMPETITION PRIZE LIST

**3 PROVINCIAL
CONTESTS**
First Prize \$275
Second, \$175; Third, \$125
Fourth, \$100

**INTERPROVINCIAL
CONTEST**
First Prize \$1000
Second, \$500

All farmers and seed growers in malting barley areas are eligible. Only one entry from each farm unit.

PLAN NOW TO WIN A PRIZE FOR YOUR 1948 BARLEY

For full details and entry form contact your

- Agricultural Representative,
- Elevator Operator, or
- Provincial Crops Commissioner



HERE'S THE "NEW WAY" IN FARM WORK



—AND A "NEW DAY" IN TRUCK VALUE!



Now you can know true on-the-job truck value with these new Chevrolet trucks for 1948! They're the lowest-price line of trucks in the volume field with the latest and greatest features of Advance-Design — features that provide new operating ease and convenience and make every invested dollar count by putting new high value to work! See these new trucks now at your Chevrolet dealer's.

A Product of General Motors



Grades seem to level and loads lighten with the new Chevrolet-developed **SYNCHRO-MESH 4-SPEED TRANSMISSIONS** in heavy-duty models that provide greater operating ease and efficiency.



Mounted on the steering column, the new Chevrolet **GEARSHIFT CONTROL** offers new convenience and ease, in all models with 3-speed transmission.



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Proved, and now **IMPROVED**, Chevrolet's powerful **VALVE-IN-HEAD ENGINE** now offers greater durability and operating efficiency.

ONLY CHEVROLET TRUCKS HAVE ALL THESE ADVANCE-DESIGN VALUES:

- The Cab that "Breathes"* — Flexi-Mounted cab — Uniweld, all-steel cab construction
- Large, durable, fully adjustable seat — All-round visibility with rear-corner windows*
- Super-strength frames — Full-floating hypoid rear axles — Specially designed hydraulic truck brakes — Standard cab-to-axle length dimensions permitting interchange of bodies — and many others.

*Fresh air heating and ventilating system and rear-corner windows optional at extra cost.

Advance-Design
CHEVROLET TRUCKS
FOR 1948

Farm Servi

★★★
IMPERIAL
SERVICE

PRESENTED BY

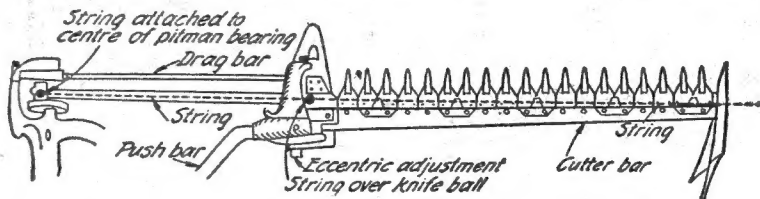
IMPERIAL OIL LIMITED

WAYS TO REDUCE MOWER DRAFT AND PREVENT CLOGGING

A mower that has been used for several seasons may get sufficiently out of adjustment that the draft is increased anywhere from 10 to 50 per cent. A few simple adjustments will go a long way to reduce this unnecessary draft and at the same time prevent delays due to clogging and breakage. Two of the main causes are discussed below, with illustrations and suggested adjustments to remedy them.

Alignment of Cutter Bar

Probably the most common cause of heavy draft lies in the cutter bar getting out of alignment. When a mower is in operation, the pitman boxing, the ball head of the knife, and the outer end of the knife should all be in a straight line. But the outer end of the cutter bar lags a little, and to compensate for this lag the outer end (when at rest) must be slightly ahead of the inner end. A new mower is adjusted this way, but as it wears with



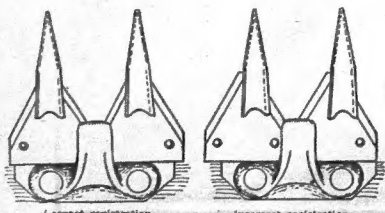
usage the amount of "lead" is gradually lessened. Unless it is readjusted, it reaches the point where, in operation, the outer end may lag an inch or more behind the inner end . . . increasing draft and decreasing its mowing efficiency.

The above illustration shows how to check the alignment. To be accurate, the machine must be placed on level ground (or on a floor) . . . the pole raised to working height . . . the tilting lever set so the bar is level . . . the outer end of the cutter bar pulled back to take up all slack . . . and the pitman wheel rotated until the pin is at its lowest point. Then stretch a string from the centre of the pitman bearing along the top of the pitman, across the centre of the knife-head ball, and attach it to the outer shoe. For correct "lead" the outer end of the knife should be one inch ahead of the inner end, on a 5-foot mower.

A faulty "lead" can usually be corrected by adjusting the lengths of the push bar and drag bar. Some mowers have an eccentric bushing on the rear hinge pin for this purpose. In extreme cases, it may be necessary to replace worn hinge pins or fit worn pin holes with bronze bushings. Sometimes, the push bar has been sprung and needs to be straightened.

Registration of the Knife

A second common cause is faulty registration of the knife. For clean cutting, sections of the knife should



travel from the centre of one guard plate to the centre of the next on each stroke of the pitman. All sections should be centred when the knife is at the extreme end of the stroke — see illustration.

If the sections do not centre, the whole cutter bar assembly needs to be moved by either lengthening or shortening both the push bar and drag bar.

Adjustment of Clips and Plates

A third cause lies in the wear of the knife clips and wearing plates, which permits the knife to tilt instead of holding it flat. This can be corrected by slackening the guard bolts and tapping the wear plates slightly forward . . . then tapping the clips down until they are snug but do not bind.

FOR SMOOTHER WORK WITH TRACTOR LOADERS

1. The success of hydraulic loading attachments for tractors depends up-

on smooth, easy operation. The operator should be careful to use the fluid recommended by the manufacturer.

2. Under no circumstances, should fluid be added to the tank when the hydraulic pistons are extended, because when they are returned to the closed position more oil is forced into the tank, causing it to overflow and possibly damaging it.

3. It is very important that the air vent on the hydraulic tank be checked every day. Plugged and dirty vents cause jerky or slow operation.

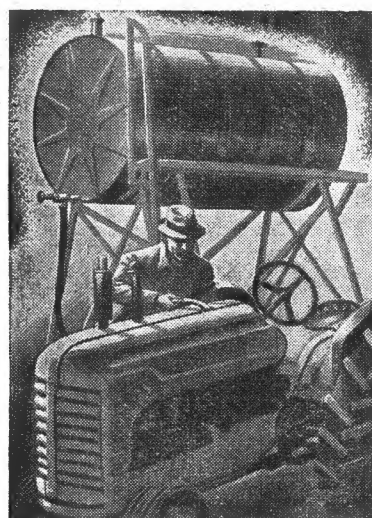
4. If hydraulic fluid foams or overflows at the tank vent, it may be due to any one of four causes:



- (a) Not sufficient fluid in the tank.
 - (b) Water or other impurity in fluid.
 - (c) Fluid of too heavy a grade.
 - (d) Air leak in hydraulic lines on suction side of pump. In checking lines for air leaks, lather them with a shaving brush.
5. In replacing dirty fluid with clean, be sure to drain the lines well.

A FARM STORAGE TANK DOESN'T 'COST'...

IT PAYS!



A farm storage tank pays 5 ways. First and foremost, it permits you to buy and store enough fuel at one time to be sure of having a supply on hand when you need it. No costly delays when tractors stand idle waiting for fuel to be delivered.

Second, it helps to keep fuel clean and avoid plugging of fuel lines and carburetors with grit, dust or water. The tank can be mounted with enough slant to cause any impurities to settle away from the outlet.

Third, it saves time in re-fueling tractors and trucks, if the tank is mounted overhead. Gravity flow is quicker than pumping or pouring. And fourth, it prevents the spillage of the pump-and-pail method.

Last but not least, a farm storage tank pays in added safety, because it can be located well away from house, barn or sheds.

Tanks come in three sizes. The cost is reasonable. See your Imperial Oil Agent.

FILTER CARE CUTS TRACTOR WEAR

Tractor motor oil seldom "wears out". It becomes contaminated with dirt, carbon, etc. which causes wear. If the oil filter is cleaned and serviced regularly, it helps greatly to improve tractor performance. A dirty filter means dirty oil and unnecessary wear. It is important that you follow the instruction book and service the oil filter as often as recommended.

Another cause of rapid motor wear is the entrance of dirt into the engine through leaks in the connections between the air cleaner and the carburetor. Check for loose connections. Under normal working conditions, the air cleaner needs daily servicing . . . oftener under extremely dirty conditions . . . but be sure to keep the oil level at the proper mark. For best results, use clean oil of the recommended grade.



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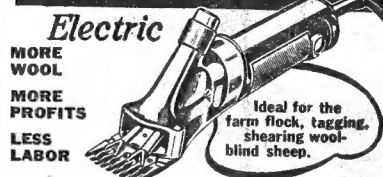
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